RFID & BIOMETRICS ACCESS CONTROL SYSTEM

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Application Guide

Access Control System ........................................... 3
It is to protect human lives, properties and information limiting unnecessary access to essential area of offices, buildings, factories and R&D centers and more. Applying various technologies of RFID and biometrics, it prevents possible danger providing comfortable environment.

Time & Attendance Control System .......................... 5
It is to provide efficient human resource management controlling attendance of employees with lateness, early leave, overtime work, outside duty, absence, holiday work, multi-shift and more. It offers optimized system interoperating with various other business management systems.

Vehicle Access Control ........................................... 6
It is to provide automatic control of vehicle access to facilities using long range RFID technology. Rapid identification of each vehicle from long distance, make efficient control reducing management cost.

One Card Solution .................................................... 7
It is to make life more convenient providing multi functions with one single card for payment of transportation, food, photo copies and others, access control, time & attendance, various membership management and much more.

Other Application .................................................... 8
There are various methods for specific environment that requires special control for security. We offer special solutions considering characteristics of each customer site in order to provide optimized security system.

Access Control System

It is to protect human lives, properties and information limiting unnecessary access to essential area of offices, buildings, factories and R&D centers and more. Applying various technologies of RFID and biometrics, it prevents possible danger providing comfortable environment.

Easy to install, convenient to use!

Standalone / Small-size System
Controller plus reader in one device that operates in stand-alone or in network

• Application : Access Control and Time & Attendance
• Site : Small office, small factory, stores, officetel and more
• Benefits : Simple installation, low cost

Standalone / Small-size System Configuration
Controller plus reader in one device that operates in stand-alone or in network

Standalone / Network Access Controller
Fingerprint Identification Access Controller
Proximity Access Controller

Standalone / Network Access Controller
Fingerprint Identification Access Controller
Proximity Access Controller

Management Software

Standalone / Network Access Controller
PIN & Proximity Single Door Access Controller

Standalone / Network Access Controller
PIN & Proximity Single Door Access Controller

Standalone / Network Access Controller
PIN & Proximity Single Door Access Controller

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Standalone / Network Access Controller
PIN & Proximity Single Door Access Controller

Standalone / Network Access Controller
PIN & Proximity Single Door Access Controller
Medium / Large-size System

Access control system integrated with various other systems such as of alarm, of fire and of CCTV and more!
- Application: Access control and time & attendance for Medium/large sized building (Elevator control, visitor management, personal tracking system)
- Applicable Site: Intelligent building, Medium/Large sized factory, special facilities (Telecommunication facilities, Water supply facilities, a garbage incineration plant)
- Benefits: High security, Various functions

Optimized system for high level security!

Efficient human resource management preventing proxy attendance!
- Application: Basic time and attendance, overtime work management, multi shift management, and management of various work rules
- Applicable site: Office, Small business place, factory, construction workers and big sized business place.
- Benefits: Easy setting with Wizard, User setting work rules and reports Event Memory full alarm output and its LCD display User name display on LCD

Time & Attendance Control System

It is to provide efficient human resource management controlling attendance of employees with lateness, early leave, overtime work, outside duty, absence, holiday work, multi-shift and more. It offers optimized system interoperating with various other business management systems.

Standalone / Network Time & Attendance Controller

Proximity & Smart Card Reader

Management Software

Intelligent Access Control Panel

Close

Time & Attendance Control System Configuration

Proximity Time & Attendance Controller

Management Software

Open

Starwatch Dual Pro II, Starwatch TDC Pro II, Starwatch View Pro, Starwatch Elevator Pro

Close

Starwatch Time Pro 200k
Vehicle Access Control

It is to provide automatic control of vehicle access to facilities using long range RFID technology. Rapid identification of each vehicle from long distance, makes efficient control reducing management cost.

Management labor cost reduction, Convenient to use, Rapid operation!

• Rapid operation of vehicle verification and of gate opening with long range recognition
• Management labor cost reduction
• Interoperation with parking system showing available parking space
• No need to open window or to open the gate

Long Range Proximity Reader (RF245)

3m / 5m / 10m range reader embedded antenna

Long Range Proximity Active Card (IDA245) / Active Card Programmer (PRG3000)

Life time active card with replaceable battery

ID245

PRG3000

One Card Solution

It is to make life more convenient providing multi functions with one only card of payment for transportation, food, photo copies and others, access control, time & attendance, various membership management and much more.

No hassle with multiple cards. All you need is “ONE Card”!

• Multiple operation using MIFARE cards
• IDTECK Credential provides higher security
• Compatible with any controller
• Simple upgrade from Prox to Smart card
• Fingerprint stored into smart card for more privacy
• Store multiple information in the card

Payment System Configuration

Card Programming and Reader Setting

RS232 Output (Overall Application Field)

Wiegand Output (Access Control)

RS485 Output (Overall Application Field)

Read & Write Smart Card Readers (RW Series) / Reader & Writer

Smart Card Read / Write Programmer

Card Programmer FGR2000 KIT

Smart Card

FGR2000RW

Adapter

Smart Cards
Other Application

There are various methods for specific environments that require special control for security. We offer special solutions considering characteristics of each customer site in order to provide optimized security systems.

- Robby Gate
  - To increase security level by interoperating with an access control system limiting unauthorized people
  - To maximize efficiency by processing large groups of people in a short time
  - For effective control of employees and visitors

- Elevator Control
  - To limit the use of the elevator by a stranger inactivating floor buttons
  - Authorized users present card to the card reader in the elevator to activate floor buttons for the user
  - To make a rapid action by sending secret/silent alarm signals in the event of a security breach

- Special Door (Inter-Lock System)
  - It prevents a stranger from accessing an authorized area without verification by an access control system and prevents asset robbery by employees
  - Interlocking gate with a weight sensor (Security Booth)
  - To prevent unauthorized access with a person counting sensor

- Visitor Control
  - Security check box (airport, R&D center, court, etc.): main access point of building or other essential points where high security control is required
  - It searches for people with arms for the building safety and security
  - Visitor management system: All visitors must register in reception
    - All visitors present personalized ID cards to have visitor cards
    - It records personal information of all visitors in order to track visitors in case of an accident

- IBS Interface
  - Electricity (light) system: When the first access event occurs, lights are turned on automatically and off after the last exit event
  - All lights turn on automatically when an intruder is detected
  - Automation system: Air conditioner and heater turn on/off automatically at the first access event and by the last exit event
  - Fire system: In case of fire, it automatically opens all or predefined group of doors
    - For emergency cases, it allows for manual opening of doors
      - It supports remote door opening from outside of the building via software

- Tracking System
  - It is to track a person or a material using an RF tag like a LPS system
  - In emergency, it enables immediate action
  - It is to increase security tracking by identifying activities in the building
  - It maximizes efficiency in building management by integrating light, automation, electricity, and other systems

- Personal Tracking System
  - Using an input/output reader with APB function, it provides information of individual's location in the building
  - It finds a dropped person with automatic and manual counting
  - Energy saving by building control by presence of each person
  - Management labor cost reduction

- Guard Tour System
  - Efficient guard tour control checking tour status with location in real time
  - Various reports by date, month, and year with statistics
  - Simultaneous access control for guards and unauthorized people

- Premier System
  - Premier system for factories, research centers, military, essential facilities, and more
  - Tension-based fence type premier system
  - Prevents critical product information loss (research papers, business data, etc.)
  - Integration with CCTV

- IBS Interface

- Tracking System

- Personal Tracking System

- Guard Tour System

- Premier System
LX505
- 125KHz(default) / 13.56MHz (Optional) Contactless Smart Card and Fingerprint Recognition
- Dual function for Access Control and Time & Attendance
- 1,000 / 2,000 / 4,000 FingerPrint Users and 10,000 ID Users
- Auto Touch sensor for fingerprint only identification
- Operating M ode selectable by Individual ID
- Time Schedules Setting by Individual ID, Input Port, Output Port and Reader M ode
- Network Communication via RS232, RS485 / RS485 (M ax.256ch), and built-in TCP/IP
- Fingerprint Templates upload/download via Laptop (Optional, RS232 Stereo jack required)
- Master card for user registration and deletion
- 26Bit Wiegand and A&B A Track II Output Format (Selecta ble in software)
- Starwatch LX ACCESS PRO II, TIME PRO 2006

LX007
- 125KHz(default) / 13.56MHz (Optional) Contactless Smart Card and Fingerprint Recognition
- Dual function for Access Control and Time & Attendance
- 1,000 / 2,000 / 4,000 FingerPrint Users and 10,000 ID Users
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- Starwatch LX ACCESS PRO II, TIME PRO 2006
Fingerprint Recognition

Time & Attendance / Access Controller

FINGER007/P
IP-FINGER007
FINGER007SR
FINGER007SRB

- 1:1 Verification and 1: N Identification
- 125KHz Proximity / PIN and Fingerprint Recognition
- Dual Function for Access Control and Time & Attendance
- 1,000 / 2,000 / 4,000 Fingerprint Users / 26,000 Event Buffers
- ID only Function for Fingerprint Unregistrable Person
- Standalone / Network Communication via RS232 / RS422 / RS485 (Max.32ch), TCP/IP (External LAN Converter required)
- TCP/IP (External LAN Converter required)
- Ioa of External Reader Port for Anti-passback Function : 36bit Wiegand, 4 / 8 Bit Burst for PIN
- Independent 4 Inputs and 4 Outputs including 2ea of 2 Form-C Relay Outputs
- High Quality Optical Sensor
- Dual Tamper Switches
- Alarm Event Monitoring using Tamper Switch (by Application Software)
- Support PRG2000B Programmer with ID & Fingerprint Template issuing Software
- Standalone / Network Communication via RS232 / RS422 / RS485 (Max.32ch), TCP/IP (External LAN Converter required)
- Ioa of External Reader Port for Anti-passback Function : 36bit Wiegand, 4 / 8 Bit Burst for PIN
- Independent 4 Inputs and 4 Outputs including 2ea of 2 Form-C Relay Outputs
- High Quality Optical Sensor
- Dual Tamper Switches
- Alarm Event Monitoring using Tamper Switch (by Application Software)
- Support PRG2000B Programmer with ID & Fingerprint Template issuing Software

Multi-Protocol Reader

IP-FINGER007
FINGER007SR
FINGER007SRB

- 1:1 Verification and 1: N Identification
- 125KHz (ASK [EM] Format) Proximity / PIN and Fingerprint Recognition
- Dual Function for Access Control and Time & Attendance
- 1,000 / 2,000 / 4,000 Fingerprint Users / 26,000 Event Buffers
- ID only Function for Fingerprint Unregistrable Person
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- High Quality Optical Sensor
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- Alarm Event Monitoring using Tamper Switch (by Application Software)
- Support PRG2000B Programmer with ID & Fingerprint Template issuing Software

Biometrics

ENROLLMENT PRO 2006

FINGER006/P/EX
IP-FINGER006
FINGER006SR
FINGER006SRB

- 1:1 Verification and 1: N Identification
- 125KHz Proximity / PIN and Fingerprint Recognition
- ISO14443 type A & compatible
- Serial Number Read only
- Dual Function for Access Control and Time & Attendance
- 1,000 / 2,000 / 4,000 Fingerprint Users / 26,000 Event Buffers
- ID only Function for Fingerprint Unregistrable Person
- Network Communication via RS232 / RS422 / RS485 (Max.256ch), TCP/IP (External LAN Converter required)
- Ioa of External Reader Port (FINGER006EX):
- 26 Wiegand, 4 / 8 Bit Burst for PIN and ABA Track II
- 26bit Wiegand and ABA Track II Output Format
- Current Time Display on the LCD
- High Quality Optical Sensor
- Dual Tamper Switches
- Compatible Software: STARWATCH DUAL PRO I / II, iTDC PRO I / II, ENROLLMENT PRO 2006
- Controller: ICON100, iTDC, Third Party Controller, Standalone Controller

Multi-Protocol Reader

IP-FINGER006
FINGER006SR
FINGER006SRB

- 1:1 Verification and 1: N Identification
- 125KHz Proximity / PIN and Fingerprint Recognition
- ISO14443 type A & compatible
- Serial Number Read only
- Dual Function for Access Control and Time & Attendance
- 1,000 / 2,000 / 4,000 Fingerprint Users / 26,000 Event Buffers
- ID only Function for Fingerprint Unregistrable Person
- Network Communication via RS232 / RS422 / RS485 (Max.256ch), TCP/IP (External LAN Converter required)
- Ioa of External Reader Port (FINGER006EX):
- 26 Wiegand, 4 / 8 Bit Burst for PIN and ABA Track II
- 26bit Wiegand and ABA Track II Output Format
- Current Time Display on the LCD
- High Quality Optical Sensor
- Dual Tamper Switches
- Compatible Software: STARWATCH DUAL PRO I / II, iTDC PRO I / II, ENROLLMENT PRO 2006
- Controller: ICON100, iTDC, Third Party Controller, Standalone Controller

Biometrics

ENROLLMENT PRO 2006

FINGER005/P
IP-FINGER005
FINGER005SR
FINGER005SRB

- 1:1 Verification and 1: N Identification
- 125KHz Proximity / PIN and Fingerprint Recognition
- ISO14443 type A & compatible
- Serial Number Read only
- Dual Function for Access Control and Time & Attendance
- 1,000 / 2,000 / 4,000 Fingerprint Users / 26,000 Event Buffers
- ID only Function for Fingerprint Unregistrable Person
- Network Communication via RS232 / RS422 / RS485 (Max.256ch), TCP/IP (External LAN Converter required)
- Ioa of External Reader Port (FINGER005EX):
- 26 Wiegand, 4 / 8 Bit Burst for PIN and ABA Track II
- 26bit Wiegand and ABA Track II Output Format
- Current Time Display on the LCD
- High Quality Optical Sensor
- Dual Tamper Switches
- Compatible Software: STARWATCH DUAL PRO I / II, iTDC PRO I / II, ENROLLMENT PRO 2006
- Controller: ICON100, iTDC, Third Party Controller, Standalone Controller

Multi-Protocol Reader

IP-FINGER005
FINGER005SR
FINGER005SRB

- 1:1 Verification and 1: N Identification
- 125KHz Proximity / PIN and Fingerprint Recognition
- ISO14443 type A & compatible
- Serial Number Read only
- Dual Function for Access Control and Time & Attendance
- 1,000 / 2,000 / 4,000 Fingerprint Users / 26,000 Event Buffers
- ID only Function for Fingerprint Unregistrable Person
- Network Communication via RS232 / RS422 / RS485 (Max.256ch), TCP/IP (External LAN Converter required)
- Ioa of External Reader Port (FINGER005EX):
- 26 Wiegand, 4 / 8 Bit Burst for PIN and ABA Track II
- 26bit Wiegand and ABA Track II Output Format
- Current Time Display on the LCD
- High Quality Optical Sensor
- Dual Tamper Switches
- Compatible Software: STARWATCH DUAL PRO I / II, iTDC PRO I / II, ENROLLMENT PRO 2006
- Controller: ICON100, iTDC, Third Party Controller, Standalone Controller

Biometrics

ENROLLMENT PRO 2006
Fingerprint Recognition

**Time & Attendance / Access Controller**

**FGR007A**  
- **1:1 Verification and 1:N Identification**  
- **Auto Touch sensor for fingerprint only identification**  
- **Dual Function for Access Control and Time Attendance**  
- **26bit Wiegand and ABA Track II (optional) Output Format**  
- **Temperature Switch**  
- **High Quality Optical Sensor**  
- **2 Form-C Relay Output for Door Lock and Alarm Device**  
- **Fingerprint Registration via M ater Card**  
- **ST A R W A T C H D U A L P R O S W / W and EN R O L L M E N T P R O 2006**  
- **Compatible Software: STARWATCH DUAL PRO I / II, G D A T A S T R A T E G Y**

**FGR007SHA**  
- **1:1 Verification and 1:N Identification**  
- **Auto Touch sensor for fingerprint only identification**  
- **Dual Function for Access Control and Time Attendance**  
- **26bit Wiegand and ABA Track II (optional) Output Format**  
- **Temperature Switch**  
- **High Quality Optical Sensor**  
- **2 Form-C Relay Output for Door Lock and Alarm Device**  
- **Fingerprint Registration via M ater Card**  
- **ST A R W A T C H D U A L P R O S W / W and EN R O L L M E N T P R O 2006**  
- **Compatible Software: STARWATCH DUAL PRO I / II**

**FGR007SR**  
- **1:1 Verification and 1:N Identification**  
- **Auto Touch sensor for fingerprint only identification**  
- **Dual Function for Access Control and Time Attendance**  
- **13.56MHz Contactless Smart Card Reader and Fingerprint Recognition**  
- **ID only function for fingerprint unregestrable person**  
- **Network Communication via RS232 / RS422 / RS485**  
- **Fingerprint Templates Up/download using Laptop**  
- **Compatible Software: STARWATCH DUAL PRO I / II, iTDC PRO I / II, G D A T A S T R A T E G Y**

**FGR007SRB**  
- **1:1 Verification and 1:N Identification**  
- **Auto Touch sensor for fingerprint only identification**  
- **Dual Function for Access Control and Time Attendance**  
- **13.56MHz Contactless Smart Card Reader and Fingerprint Recognition**  
- **ID only function for fingerprint unregestrable person**  
- **Network Communication via RS232 / RS422 / RS485**  
- **Fingerprint Templates Up/download using Laptop**  
- **Compatible Software: STARWATCH DUAL PRO I / II, iTDC PRO I / II, G D A T A S T R A T E G Y**

**FGR006/S**  
- **1:1 Verification and 1:N Identification**  
- **26bit Wiegand and ABA Track II (optional) Output Format**  
- **Network Communication via RS232 / RS422 / RS485**  
- **Fingerprint Templates Up/download using Laptop**  
- **Compatible Software: STARWATCH DUAL PRO I / II, iTDC PRO I / II, G D A T A S T R A T E G Y**

**FGR005/S**  
- **1:1 Verification and 1:N Identification**  
- **Auto Touch sensor for fingerprint only identification**  
- **Dual Function for Access Control and Time Attendance**  
- **13.56MHz Contactless Smart Card Reader and Fingerprint Recognition**  
- **ID only function for fingerprint unregestrable person**  
- **Network Communication via RS232 / RS422 / RS485**  
- **Fingerprint Templates Up/download using Laptop**  
- **Compatible Software: STARWATCH DUAL PRO I / II, iTDC PRO I / II, G D A T A S T R A T E G Y**
## Biometrics

### Fingerprint Selection Guide

(Fingerprint Access Controller Series)

<table>
<thead>
<tr>
<th>Model</th>
<th>FINGER007</th>
<th>FINGER007P</th>
<th>IP-FINGER007</th>
<th>FINGER007SR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Door</td>
<td>3ea</td>
<td>3ea</td>
<td>3ea</td>
<td>3ea</td>
</tr>
<tr>
<td>Event Buffer</td>
<td>26,000</td>
<td>26,000</td>
<td>26,000</td>
<td>26,000</td>
</tr>
<tr>
<td>Fingerprint User</td>
<td>2,000 / 2,000 / 4,000</td>
<td>2,000 / 2,000 / 4,000</td>
<td>2,000 / 2,000 / 4,000</td>
<td>2,000 / 2,000 / 4,000</td>
</tr>
<tr>
<td>Fingerprint Template Size</td>
<td>800 Bytes for 2 Fingerprint Templates</td>
<td>800 Bytes for 2 Fingerprint Templates</td>
<td>800 Bytes for 2 Fingerprint Templates</td>
<td>800 Bytes for 2 Fingerprint Templates</td>
</tr>
<tr>
<td>External Reader Port for Anti-PassBack</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Frequency</td>
<td>32KHz</td>
<td>N/A</td>
<td>125KHz</td>
<td>13.56MHz [MIFARE]</td>
</tr>
<tr>
<td>Format</td>
<td>PSK</td>
<td>N/A</td>
<td>ASK [EM]</td>
<td>ASK</td>
</tr>
<tr>
<td>Communication</td>
<td>RS232 / RS422 / RS485</td>
<td>TCP / IP (External LAN Converter required)</td>
<td>TCP / IP (External LAN Converter required)</td>
<td>TCP / IP (External LAN Converter required)</td>
</tr>
<tr>
<td>Unit Address</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Input port</td>
<td>4ea</td>
<td>4ea</td>
<td>4ea</td>
<td>4ea</td>
</tr>
<tr>
<td>Output port</td>
<td>4ea</td>
<td>4ea</td>
<td>4ea</td>
<td>4ea</td>
</tr>
<tr>
<td>Real Time Clock</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Time Schedule</td>
<td>Time Code</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Tamper Switch</td>
<td>2ea</td>
<td>2ea</td>
<td>2ea</td>
<td>2ea</td>
</tr>
<tr>
<td>LCD</td>
<td>Yes (Character LCD)</td>
<td>Yes (Character LCD)</td>
<td>Yes (Character LCD)</td>
<td>Yes (Character LCD)</td>
</tr>
<tr>
<td>Keypad</td>
<td>Yes (With Back Lighting)</td>
<td>Yes (With Back Lighting)</td>
<td>Yes (With Back Lighting)</td>
<td>Yes (With Back Lighting)</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Keoper</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Read Range</td>
<td>4’’(10cm)</td>
<td>4’’(10cm)</td>
<td>4’’(10cm)</td>
<td>4’’(10cm)</td>
</tr>
</tbody>
</table>

### Authorization Mode

- **RF only**
- **RF + Fingerprint**
- **RF + P/W (4digit)**
- **RF + P/W (4digit) + Fingerprint**
- **P/W only**
- **P/W + Fingerprint**
- **P/W + P/W (4digit)**
- **P/W + P/W (4digit) + Fingerprint**

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**Note:** For complete specifications and compatibility details, please refer to the Biometrics Fingerprint Selection Guide and the Fingerprint Access Controller Series documentation.
## Biometrics

### Fingerprint Selection Guide (Fingerprint Reader Series)

<table>
<thead>
<tr>
<th>Model</th>
<th>FINGER006</th>
<th>FINGER006P</th>
<th>FINGER006EX</th>
<th>IP-FINGER006</th>
<th>FINGER006SR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fingerprint User</strong></td>
<td>1,000 / 2,000 / 4,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fingerprint Template Size</strong></td>
<td>800 Bytes for 2 Fingerprint Templates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Frequency</strong></td>
<td>125KHz</td>
<td>N/A</td>
<td>N/A</td>
<td>125KHz</td>
<td>13.56MHz (MIFARE)</td>
</tr>
<tr>
<td><strong>Communication</strong></td>
<td>RS232 / RS422 / RS485</td>
<td>TCP / IP (External LAN Converter required)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Unit Address</strong></td>
<td>256ch</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supervisory Signal</strong></td>
<td>Yes (Optional)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Input port</strong></td>
<td>2ea: Error-Input, Ok-Input</td>
<td></td>
<td></td>
<td></td>
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**Finger Selection Guide**

(Fingerprint Reader Series)
Biometrics

Face Recognition Selection Guide

**FACE007/P**
- 125KHz Proximity / PIN and Facial Recognition
- Dual Function for Access Control and Time & Attendance
- 10,000 Facial Users with 2 Facial Templates / 20,000 Event Buffers
- Various Operating Modes
- Standalone / Network Communication via RS422 / RS485 (Max.32ch), TCP/IP (External LAN Converter required)
- 3ea of External Reader Port for Anti-passback Function: 26bit Wiegand and 4 / 8bit Burst for PIN
- Independent 4 Inputs and 4 Outputs Including 4ea of 2 Form-C Relay Outputs
- Video Output with NTSC Signal, Voice Output
- Alarm Event Monitoring using Tamper Switch (by Applicant Software)
- Rainbow Color LED Indicator for Image Capture
- Compatible Software: STARWATCH DUAL PRO I/II

**FACE007SR**
- 13.56 MHz Contactless Smart Card / PIN and Facial Recognition
- ISO14443 type A compatible
- Serial Number Read only
- Dual Function for Access Control and Time & Attendance
- 10,000 Facial Users with 2 Facial Templates
- Network Communication via RS422 / RS485 (Max.32ch), TCP/IP (External LAN Converter required)
- 3ea of External Reader Port for Anti-passback Function: 34bit Wiegand and 26bit Wiegand and 4 / 8bit Burst for PIN
- Independent 4 Inputs and 4 Outputs Including 4ea of 2 Form-C Relay Outputs
- Video Output with NTSC Signal, Voice Output
- Tamper Switch
- Rainbow Color LED Indicator for Image Capture
- Supervisory Signal (optional)
- Compatible Software: STARWATCH DUAL PRO I /II, iTDC PRO I / II

**FACE006/P/EX**
- 125KHz Proximity / PIN and Facial Recognition
- 10,000 Facial Users with 2 Facial Templates
- Network Communication via RS422 / RS485 (Max.255ch), TCP/IP (External LAN Converter required)
- 1ea of External Reader Port (FACE006EX):
  - 26bit Wiegand and ABA Track II Output Format
  - Video Output with NTSC Signal, Voice Output
  - Tamper Switch
  - Rainbow Color LED Indicator for Image Capture
  - Compatible Controller: iCON100, iTDC, Third Party Controller

**FACE006SR**
- 13.56 MHz Contactless Smart Card / PIN and Facial Recognition
- ISO14443 type A compatible
- Serial Number Read only
- 10,000 Facial Users with 2 Facial Templates
- Network Communication via RS422 / RS485 (Max.255ch), TCP/IP (External LAN Converter required)
- 34bit Wiegand and ABA Track II Output Format
- Video Output with NTSC Signal, Voice Output
- Tamper Switch
- Rainbow Color LED Indicator for Image Capture
- Supervisory Signal (optional)
- Compatible Software: STARWATCH DUAL PRO I /II, iTDC PRO I / II

**FACE006/SR**
- 125KHz Proximity / PIN and Facial Recognition
- 10,000 Facial Users with 2 Facial Templates
- Network Communication via RS422 / RS485 (Max.255ch), TCP/IP (External LAN Converter required)
- 1ea of External Reader Port: 26bit Wiegand and ABA Track II Output Format
- Video Output with NTSC Signal, Voice Output
- Tamper Switch
- Rainbow Color LED Indicator for Image Capture
- Supervisory Signal (optional)
- Compatible Software: STARWATCH DUAL PRO I /II, iTDC PRO I / II

**FACE007SR**
- 13.56 MHz Contactless Smart Card / PIN and Facial Recognition
- ISO14443 type A compatible
- Serial Number Read only
- Dual Function for Access Control and Time & Attendance
- 10,000 Facial Users with 2 Facial Templates
- Network Communication via RS422 / RS485 (Max.255ch), TCP/IP (External LAN Converter required)
- 3ea of External Reader Port for Anti-passback Function: 34bit Wiegand and 4 / 8bit Burst for PIN
- Independent 4 Inputs and 4 Outputs Including 4ea of 2 Form-C Relay Outputs
- Video Output with NTSC Signal, Voice Output
- Tamper Switch
- Rainbow Color LED Indicator for Image Capture
- Supervisory Signal (optional)
- Compatible Software: STARWATCH DUAL PRO I /II, iTDC PRO I / II

**FACE006/SR**
- 13.56 MHz Contactless Smart Card / PIN and Facial Recognition
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- Independent 4 Inputs and 4 Outputs Including 4ea of 2 Form-C Relay Outputs
- Video Output with NTSC Signal, Voice Output
- Tamper Switch
- Rainbow Color LED Indicator for Image Capture
- Supervisory Signal (optional)
- Compatible Software: STARWATCH DUAL PRO I /II, iTDC PRO I / II
Standalone Access Controller

## PDL700
- 109 Fingerprint Users (each 2 Templates per User) [PDL700]
- 10 Password Users (4-12 digits) [PDL700]
- Dual Mode by Password (4-12 digits) by Fingerprint Identification by Remote Control (optional)
- Left/Right Handle Door Lock (Mortise)
- High Protection from Scratch and ESD
- High Quality Optical Sensor
- Automatic/Manual Locking Function
- Fire Alarm on Higher Temperature
- Forced Door Open alarm: Keypad Lock (30 sec.) by Try-out(4 times)
- Door Unlock Alarm / Low Battery Alarm
- External Battery Connection
- Easy Operation and Elegant Color & Design
- Blue LED Indicator and Melody Sound
- Emergency Unlock using Mechanical Key
- Left/Right Handle Door Lock (Mortise)
- High Protection from Scratch and ESD
- High Quality Optical Sensor
- Automatic/Manual Locking Function
- Fire Alarm on Higher Temperature
- Forced Door Open alarm: Keypad Lock (30 sec.) by Try-out(4 times)
- Door Unlock Alarm / Low Battery Alarm
- External Battery Connection
- Easy Operation and Elegant Color & Design
- Blue LED Indicator and Melody Sound
- Emergency Unlock using Mechanical Key

## PDL200/PDL200HT
- Proximity/PIN Operation (including Sea of 10K50 Key fob / PDL200)
- 512 Card Users and 3 PIN User
- Infrared Sensor for Contactless Operation
- 3 Key (P/DOWN/ENTER) and 7-segment LED Display
- External Battery Connection

## PDL300
- Proximity Operation (including Sea of 10K50 Key fob / PDL200)
- Lever Handle Door Lock (RH & LH)
- Infrared Sensor for Contactless Operation
- External Battery Connection

## PDL200HT
- Proximity/PIN Operation (including Sea of 10K50 Key fob / PDL200)
- 3 Key (P/DOWN/ENTER) and 7-segment LED Display
- External Battery Connection

## Common
- Deadbolt Door Lock
- Proximity / PIN Data Reclaims without Battery for 10 Years
- Rain / Air / Auto Door Lock Mode selectable (PDL200/PDL200HT)
- LED Indicator and Melody Sound
- Silence Mode and Forced Door Open Alarm / Low Battery Alarm
- Emergency Unlock using Mechanical Key

## IP505R
- 125KHz Standalone Proximity / PIN Access Controller
- Dual Function for Access Control and Time & Attendance
- Dynamic Control of Memory up to 20,000 Users / up to 7,250 Event Buffers
- Standalone / Network Communication via RS232 / RS422 / RS485 (M ax.32ch), TCP/IP (External LAN Converter required)
- 3ea of External Reader Port for Anti-passback : 26bit Wiegand, 4 / 8bit Burst for PIN
- Duress Mode Function
- Independent 4 Inputs and 4 Outputs including 2ea of 2 Form-C Relay Outputs
- Dual Tamper Switches
- Alarm Event Monitoring using Tamper Switch (by Application Software)
- Compatible Software: STARWATCH DUAL PRO I / II

## SR505B
- 13.56MHz (MIFARE) Standalone Fingerprint Stored Smart Card ID & PIN Access Controller
- Read Encrypted ID of Smart Card which is written by PRG2000B
- Dual Function for Access Control and Time & Attendance
- Dynamic Control of Memory up to 10,000 Users / up to 7,250 Event Buffers
- Standalone / Network Communication via RS232 / RS422 / RS485 (Max.32ch), TCP/IP (External LAN Converter required)
- 3ea of External Reader Port for Anti-passback : 26bit Wiegand, 4 / 8bit Burst for PIN
- Duress Mode Function
- Independent 4 Inputs and 4 Outputs including 2ea of 2 Form-C Relay Outputs
- Dual Tamper Switches
- Alarm Event Monitoring using Tamper Switch (by Application Software)
- Compatible Software: STARWATCH DUAL PRO I / II
### Standalone Access Controller

**Proximity Access Controller**
- **RFL200**
- **RFL200C**
- **IP-RFL200**
- **IP-RFL200C**

**PIN & Proximity/PINPAD Single Door Access Controller**
- **100R**
- **120R**
- **120W**
- **PIN120**
- **IP100R**
- **IP120**

**IP-RFL200/200C**
- **125KHz (ASK [EM] Format) Standalone Proximity Access Controller**
- **IP-RFL200C**: 512 Users / 256 Event Buffers
- **IP-RFL200C**: Network Communication via RS-485 (Max. 255ch)
- **IP-RFL200C**: 125KHz Standalone Proximity Access Controller
- **IP-RFL200C**: 125KHz Standalone Proximity & PIN Single Door Access Controller
- **IP-RFL200C**: Basic Time & Attendance Function
- **IP-RFL200C**: Option Time of All I/Os Programmable by Keypad
- **IP-RFL200C**: Chime Bell Output
- **IP-RFL200C**: Tamper Switches
- **IP-RFL200C**: Weather-proofed
- **IP-RFL200C**: Firmware Upgrade via S/W
- **IP-RFL200C**: Power Fail Safe or Power Fail Secure Locks selectable
- **IP-RFL200C**: Direct Control of Door Lock
- **IP-RFL200C**: Waterproof
- **IP-RFL200C**: Warranty: Life Time
- **IP-RFL200C**: Secure Software: STAR 100R PRO

**PIN120/120W**
- **PIN120**
- **IP100R**
- **PIN120W**
- **100W**

<table>
<thead>
<tr>
<th>Model</th>
<th>SR505/505R</th>
<th>505R</th>
<th>RFL200</th>
<th>IP-RFL200C</th>
<th>RFL200C</th>
<th>IP-RFL200C</th>
<th>100R/100W</th>
<th>PIN120/100W</th>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>PIN + PIN (HDG)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
<td>Yes</td>
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</table>

* SR505 : 13.56MHz H/SN (FARE) contactless smart card access controller (ISO14443 Type A compatible / Serial Number Read Only)  
SR505B : 13.56MHz H/SN (FARE) standalone fingerprint stored smart card ID & PIN access controller
### Single Door Access Control Panel

**iCON100/M**

- **Single Door Access Controller Panel**
- **Dynamic Control of Memory up to 10,000 Users / up to 7,250 Event Buffers**
- **Stand-alone / Network Communication via RS232 / RS422 / RS485 (Max. 32ch), TCP/IP (LAN Converter required)**
- **Independent 5 Inputs and 4 Outputs including 2ea of 2 Form-C Relay Outputs**
- **Reader Port for Anti-Passback Function**
  - iCON100 - 2ea (26bit Wiegand, 4 / 8bit Burst for PIN)
  - iCON100M - 2ea (ABA Track II)
- **Alarm Event Monitoring using Tamper Switch (by Application Software)**
- **Optional LCD display and Keypad connectable to Control for Standalone Operation, Manual Setting**
- **Duress Mode Function**
- **Standalone Operation or Integration with IDTECK's Access Control System (iTDC Controller)**
- **2 Form-C Relay Outputs**
- **2 Men Operation**
- **Optional LCD display and Keypad connectable to Control for Standalone Operation, Manual Setting**
- **Supervised Reader Signal Check**
- **Guard Tour Management**
- **2 Levels Individual Door Opening Time Setting available**
- **ARM / DISARM Function for Alarm Panel**
- **4ea of Reader Port for Anti-passback Function**
- **Stand-alone / Network Communication via RS232 / RS422 / RS485 (Max. 32ch), TCP/IP (Internal TCP/IP Module required (optional))**
- **Expansion I/O Board available (EIO88: 8 Inputs / 8 Outputs)**
- **Contactless Smart Card Intelligent Single Door Access Controller Panel**
- **Dynamic Control of Memory up to 10,000 Users / up to 7,250 Event Buffers**
- **Stand-alone / Network Communication via RS232 / RS422 / RS485 (Max.32ch), TCP/IP (LAN Converter required)**
- **Independent 5 Inputs and 4 Outputs including 2ea of 2 Form-C Relay Outputs**
- **2 Men Operation**
- **Optional LCD display and Keypad connectable to Control for Standalone Operation, Manual Setting**
- **2 Levels Individual Door Opening Time Setting available**
- **Supervised Reader Signal Check**
- **Guard Tour Management**
- **2 Men Operation**
- **Optional LCD display and Keypad connectable to Control for Standalone Operation, Manual Setting**
- **Duress Mode Function**
- **Standalone Operation or Integration with IDTECK's Access Control System (iTDC Controller)**
- **4ea of Reader Port for Anti-passback Function**
- **Stand-alone / Network Communication via RS232 / RS422 / RS485 (Max. 32ch), TCP/IP (Internal TCP/IP Module required (optional))**
- **Expansion I/O Board available (EIO88: 8 Inputs / 8 Outputs)**
- **Contactless Smart Card Intelligent Multi Door Access Control Panel**
- **Dynamic Control of Memory up to 50,000 Users / up to 29,000 Event Buffers**
- **Stand-alone / Network Communication via RS232 / RS422 / RS485 (Max.32ch), TCP/IP (LAN Converter required)**
- **Independent 7 Inputs and 7 Outputs including 4ea of 2 Form-C Relay Outputs**
- **4ea of Reader Port for Anti-passback Function**
- **Stand-alone / Network Communication via RS232 / RS422 / RS485 (Max. 32ch), TCP/IP (Internal TCP/IP Module required (optional))**
- **Expansion I/O Board available (EIO88: 8 Inputs / 8 Outputs)**
- **Independent 7 Inputs and 7 Outputs including 4ea of 2 Form-C Relay Outputs**
- **4 Men Operation**
- **Optional LCD display and Keypad connectable to control for Standalone Operation, Manual Setting**
- **Duress Mode Function**
- **Standalone Operation or Integration with IDTECK'S Access Control System (iTDC Controller)**
- **2 Men Operation**
- **Optional LCD display and Keypad connectable to control for Standalone Operation, Manual Setting**
- **Duress Mode Function**
- **Standalone Operation or Integration with IDTECK'S Access Control System (iTDC Controller)**
- **2 Men Operation**
- **Optional LCD display and Keypad connectable to control for Standalone Operation, Manual Setting**
- **Duress Mode Function**
- **Standalone Operation or Integration with IDTECK'S Access Control System (iTDC Controller)**
- **2 Men Operation**
- **Optional LCD display and Keypad connectable to control for Standalone Operation, Manual Setting**
- **Duress Mode Function**
# Access Control Panel Selection Guide

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<thead>
<tr>
<th>Model</th>
<th>iCON100</th>
<th>iCON100M</th>
<th>iCON100SR</th>
<th>iTDC</th>
<th>iTDC-SR</th>
<th>ELEVATOR/B34</th>
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<td>Common Features</td>
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<td>4ea (EIO88 Required)</td>
<td>12 floors</td>
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<tr>
<td>User</td>
<td>10,000</td>
<td>50,000</td>
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<td>Yes</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Anti-Pass-Back Function</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
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<tr>
<td>Reader Input Format</td>
<td>26bit Wiegand 4 / 8bit Burst</td>
<td>ABA Track II 4 / 8bit Burst</td>
<td>34bit Wiegand 4 / 8bit Burst</td>
<td>26bit Wiegand 4 / 8bit Burst</td>
<td>34bit Wiegand 4 / 8bit Burst</td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td>RS232 / RS422 / RS485</td>
<td>TCP / IP (LAN Converter required)</td>
<td>TCP / IP (Internal TCP / IP Module required)</td>
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<tr>
<td>Unit Address</td>
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<td>250ch (1Loop)</td>
<td>32ch.h</td>
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<tr>
<td>Input Port</td>
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<td>7ea</td>
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<td>Output Port</td>
<td>4ea</td>
<td>7ea</td>
<td>12ea</td>
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<tr>
<td>Real Time Clock</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
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<tr>
<td>Time Schedule</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>LED Indicator</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Keeper</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Difference Features

- **Duress Mode**: Yes (New,))
- **Alarm Event Monitoring**: Yes (New,)
- **2 Men Operation**: N/A (New,)
- **ARM / DISARM Function for Alarm Panel**: N/A (New,)
- **2 Levels Individual Door Opening Time Setting**: N/A (New,)
- **Accessible Floor Setting for Each User**: N/A (New,)

### Options (Manual Setting available for Standalone Operation)

- **LCD**: Yes (New,)
- **Keypad**: Yes (New,)
- **Internal TCP/IP Module**: N/A (New,)
- **Expansion I/O Board**: N/A (New,)

---

**RF10/20/TINY/RF30**

- **125KHz Proximity Card Reader**
- **PSK Modulation (IDTECK Format)**
- **Read Range**: RF10 / 20 / TINY: Up to 4 inch (10cm) RF30: Up to 12 inch (30cm)
- **User format available**: 26bit Wiegand (default) / RS232 and ABA Track II (optional) Output Format
- **Dual Reading Technology (Active and Passive Cards)**
- **External LED Control**
- **External Buzzer Control**
- **Solid Epoxy Potted**
- **Waterproof (IP65/IP66)**
- **Reverse Polarity Protection**
- **Supervisory Signal (Optional)**
- **Compatible Controller**: iCON100, iTDC, Standalone Controller, Third Party Controller

### RFK101

- **125KHz Proximity / PIN Reader**
- **PSK Modulation (IDTECK Format)**
- **Read Range**: Up to 4 inch (10cm)
- **User format available**: 26bit Wiegand, ABA Track II and 4 / 8bit Burst for PIN Output Format selectable
- **Dual Keypad**: 26bit Wiegand, 34bit Wiegand, ABA Track II and 4 / 8bit Burst for PIN Output Format selectable
- **Tamper Switch**: Wall Mount (US, EU, Asian Gang Box Size)
- **Supervisory Signal (Optional)**
- **Compatible Controller**: iCON100, iTDC, Standalone Controller, Third Party Controller

### RFK505

- **125KHz Proximity / PIN Reader**
- **PSK Modulation (IDTECK Format)**
- **Read Range**: Up to 4 inch (10cm)
- **User format available**: 26bit Wiegand, ABA Track II and 4 / 8bit Burst for PIN Output Format selectable
- **16 Numeric Keypads with Back Lighting**
- **Current Time Display on the LCD**
- **Dual Tamper Switches**: Wall Mount (US, EU, Asian Gang Box Size)
- **Supervisory Signal (Optional)**
- **Compatible Controller**: iCON100, iTDC, Standalone Controller, Third Party Controller

### IDC80/IDC170/IDK50/IM C125/LXK50

- **ISO Credit Card Size and Thickness (IDC80)**
- **User format available**: 125KHz / Passive Type
- **Printing Company Logo with Graphic (IDC80 Front & Rear)**
- **Key Tag (IDK50) / (LXK50) / (IDC125)**
- **MiniProx Sticker Tag (IM C125)**
- **Easy to attach on Personal Belongings using IM C125 (MS / Barcode Card, Wallet, PS4, Cell Phone)**
- **PRG1000 Proximity Card Programmer**
- **Red color LED Indicators (LXK50)**
- **Magnetic Stripe (High Coercivity – IDC80 / Optional)**
### 125KHz Proximity Reader & Card/Tag

**Model:** IP10 / IP20 / IP30 / IPK101

- **Frequency:** 125KHz
- **Format:** ASK[EM] Format
- **26bit Wiegand Output Format:** Yes
- **ABA Track II Output Format:** Yes (optional)
- **RS232 Output Format:** Yes (optional)
- **External LED Control:** Sea
- **External Buzzer Control:** Sea
- **Dual Reading Technology:** Passive / Active
- **Reverse Polarity Protection:** Yes
- **IP65 / IP66 Waterproof:** Yes
- **Warranty:** Life Time
- **Compatible Controller:** iCON100, iTDC, Third Party Controller

**IPC80/IP170/IPK50**

- **ISO Credit Card Size and Thickness:** (IPC80)
- **ASK[EM] Format:**
- **125KHz / Passive Type:**
- **Printing Company Logo with Graphic:** (IPC80 - Front & Rear)
- **Key Tag:** (IPK50)
- **Magnetic Stripe:** (High Coercivity - IPC80) / Optional

---

### Proximity Reader Selection Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>RF10/RF20</th>
<th>IP10/IP20</th>
<th>RF TINY</th>
<th>RF30</th>
<th>IP30</th>
<th>RFK101</th>
<th>IPK101</th>
<th>RFK505</th>
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<td>ASK[EM]</td>
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<td>26bit Wiegand Output Format</td>
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<td></td>
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<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>ABA Track II Output Format</td>
<td>Yes (optional)</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>RS232 Output Format</td>
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<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>External LED Control</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>External Buzzer Control</td>
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<td></td>
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<td></td>
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<tr>
<td>Dual Reading Technology</td>
<td>Passive / Active</td>
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<td></td>
<td></td>
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<td>Reverse Polarity Protection</td>
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<tr>
<td>LED Indicator</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Keypad</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supervisory Signal (Optional)</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Read Range**

- **Passive Type**
  - IPC80: Up to 4 inch (10cm)
  - IP170: Up to 12 inch (30cm)
  - IPK50: Up to 4 inch (10cm)

- **Active Type**
  - IDA150: Compatible
  - IDA200: Compatible

**Solid Epoxy Potted**

- Yes
- N/A

**Waterproof**

- Yes
- N/A

**Indoor / Outdoor Operation**

- Yes
- N/A

**Metal Door Frame**

- Yes
- N/A

**Mullion**

- Yes
- N/A

**Wall Mount**

- Yes
- N/A

**Tamper Switch**

- Yes
- N/A

**LCD**

- Yes
- N/A

**Keypad**

- Yes (with Back Lighting)
- N/A

---
13.56MHz [MIFARE] SMART Reader & Card/Tag

13.56MHz [MIFARE] Smart Card Read Only Series
SR10/SR10E
SR30/SRK101

SR10U/SR10UE
SR30U/SRK101U/SRK505U

Common
• 13.56MHz [MIFARE] Contactless Smart Card Reader
• Serial Number Read Only
• Read Range: Up to 4 inch (10cm)
• User Format Available
• Reverse Polarity Protection
• Application
• Access Control
• Time & Attendance

ISO 14443 Type A Compatible

SRK101
SRK101U
• 34bit Wiegand, 4/8bit Burst for PIN Output Format (Selectable)
• 12 Numeric Keypad with Back Lighting
• Current Time Display on the LCD
• Tamper Switch
• Wall Mount (US, EU, Asian Gang Box Size)
• Supervisory Signal (Optional)
• Warranty (Life Time)

SRK505U
• 34bit Wiegand, 4/8bit Burst for PIN Output Format Selectable
• 16 Numeric Keypads with Back Lighting
• Current Time Display on the LCD
• Dual Tamper Switches
• Wall Mount (US, EU, Asian Gang Box Size)
• Supervisory Signal (Optional)

13.56MHz [MIFARE] Contactless Smart Card Reader/Writer Series
SR10RW/SR10RWE
SR30RW/SRK101RW

SR10U/SR10UE
SR30U/SRK101U/SRK505U

Common
• 13.56MHz [MIFARE] Contactless Smart Card Reader / Writer
• Read Range: Up to 4 inch (10cm)
• Read the Card Which is Issued by PRG2000RW (Smart Card Read / Write Programmer)
• RS232 / RS485 (default), 26/ 34bit Wiegand (selectable) Output Format
• Reverse Polarity Protection
• Application
• Access Control
• Time & Attendance

ISO 14443 Type A/B Compatible

SRK101RW
SRK101RW
• 34bit Wiegand, 4/8bit Burst for PIN Output Format (Selectable)
• 12 Numeric Keypad with Back Lighting
• Tamper Switch
• Wall Mount (US, EU, Asian Gang Box Size)
• Supervisory Signal (Optional)

PRG2000RW
13.56MHz [MIFARE] Contactless Smart Card Programmer

PRG2000RW
SR10RW/SR10RWE
SR30RW/SRK101RW

SR10U/SR10UE
SR30U/SRK101U/SRK505U

Common
• 13.56MHz [MIFARE] Contactless Smart Card Reader / Writer
• Able to issue a Card for Various Applications (One Card Solution)
• MIFARE Memory Map and IDTECK Memory Map selectable
• Able to set up Access Control, Time & Attendance
• Debt Mail and Cashless Payment System through the RS232 Port
• Application
• Access Control
• Time & Attendance

ISO 14443 Type A/B Compatible

SRK101RW
SRK101RW
• 34bit Wiegand, 4/8bit Burst for PIN Output Format (Selectable)
• 12 Numeric Keypad with Back Lighting
• Tamper Switch
• Wall Mount (US, EU, Asian Gang Box Size)

SRK505U
• 34bit Wiegand, 4/8bit Burst for PIN Output Format Selectable
• 16 Numeric Keypads with Back Lighting
• Current Time Display on the LCD
• Dual Tamper Switches
• Wall Mount (US, EU, Asian Gang Box Size)

13.56MHz [MIFARE] Contactless Smart Card Reader/Writer Series
SR10RW/SR10RWE
SR30RW/SRK101RW

SR10U/SR10UE
SR30U/SRK101U/SRK505U

Common
• 13.56MHz [MIFARE] Contactless Smart Card Reader / Writer
• Able to issue a Card for Various Applications (One Card Solution)
• MIFARE Memory Map and IDTECK Memory Map selectable
• Application
• Access Control
• Time & Attendance

ISO 14443 Type A/B Compatible

SRK101RW
SRK101RW
• 34bit Wiegand, 4/8bit Burst for PIN Output Format (Selectable)
• 12 Numeric Keypad with Back Lighting
• Tamper Switch
• Wall Mount (US, EU, Asian Gang Box Size)

13.56MHz [MIFARE] Contactless Smart Card Programmer

PRG2000RW
SR10RW/SR10RWE
SR30RW/SRK101RW

SR10U/SR10UE
SR30U/SRK101U/SRK505U

Common
• 13.56MHz [MIFARE] Contactless Smart Card Reader / Writer
• Able to issue a Card for Various Applications (One Card Solution)
• MIFARE Memory Map and IDTECK Memory Map selectable
• Able to set up Access Control, Time & Attendance
• Debt Mail and Cashless Payment System through the RS232 Port
• Application
• Access Control
• Time & Attendance

ISO 14443 Type A/B Compatible

SRK101RW
SRK101RW
• 34bit Wiegand, 4/8bit Burst for PIN Output Format (Selectable)
• 12 Numeric Keypad with Back Lighting
• Tamper Switch
• Wall Mount (US, EU, Asian Gang Box Size)
13.56 MHz Contactless IDTECK Credential Smart Card Reader Series

SR10S/SR10SE
SR30S/SRK101S

SRK101S
• 3 Array LED indicators (Red, Green and Yellow) and Beeper
• 12 Numeric Keypads with Back Lighting
• 34 bit Wiegand, 4/8 bit Burst for PIN Output Format Selectable
• Tamper Switch
• Wall Mount (US, EU, Asian Gang Box Size)
• Reverse Polarity Protection
• Sea of External LED Control (Optional)

ISC80S
• 13.56 MHz Contactless IDTECK Credential Smart Card
• ID number written by IDTECK with secure access key

Benefits
• High Security Level : ID number control by user or IDTECK with secure access key
• Convenient Card Registration : Since user or IDTECK control the ID number, card IDs are known and are in serial
• Business Protection : Without data sector and access key information, other supplier could not make compatible reader or cards

Application
• Access Control
• Time & Attendance

PRG2000S
• 13.56 MHz Contactless Smart Card User Credential Programmer
• ID number control by user with secure access key
• Various Wiegand & A&B Track II Output Programmable

Benefits
• External LED Control / External Buzzer Control

Common
• 13.56 MHz [MIFARE] Contactless IDTECK Credential Smart Card Reader
• Read Range : Up to 4 inch(10cm)
• ISC80S Smart Card Read Only
• IDTECK Credential ID Number Reading of Smart Card (ISM08)
• Programmed by IDTECK (Without PRG2000S*)

*PRG2000S* (W/PRG2000S*)
• IDTECK Credential ID Number Reading of Smart Card (Mifare)
• Programmed by PRG2000S* (W/PRG2000S*)

SR30S
• 7 Array LED Indicators (Red and Green) and Beeper
• Wall Mount (US, EU, Asian Gang Box Size)

Fingerprint Stored Smart Card ID Only Reader Series

SR10B/SR10BE
SR30B/SRK101B

SR10B/SR10BE
• 3 Array LED indicators (Red and Green) and Beeper
• Easy to install on Glass Mount
• SR30SE : Solid Epoxy Potted (Waterproof / IP65, IP66), Warranty (Life Time)

Benefits
• External LED Control / External Buzzer Control
• 26bit Wiegand (default) ) / RS232 and ABA Track II (optional) Output Format

Application
• Access Control / Time & Attendance
• Unlimited Fingerprint User Applicable

FingerPrint Stored Contactless Smart Card [MIFARE] Programmer

PRG2000B
• 13.56 MHz [MIFARE] Contactless Smart Card Programmer for storing Biometric [Fingerprint] Templates

• Write Encrypted ID and Fingerprint Template on the Smart Card
• Write Encrypted ID and Fingerprint Template on the Smart Card
• ID only Function for Fingerprint Unregistrable Person

Benefits
• RS232 Communication Port connectable for fingerprint registration terminal
• No need to manage database or Templates
• Easy to attach on Personal Belongings using IMC135

Common
• 13.56 MHz [MIFARE] Contactless Smart Card Reader
• Read Range : Up to 4 inch(10cm)
• 26bit Wiegand (default) ) / RS232 and ABA Track II (optional) Output Format

• Read Encrypted ID of Smart Card which is written by PRG2000B
• External LED Control / External Buzzer Control
• Compatible Reader : ICON100, ITDC, Third Party Controller, FINERO5DR
• Compatible Reader : FGR006SRB, FINGER006SRB

Benefits
• High security level : data protected with secure access key
• Business Protection : Without data sector and access key information, other supplier could not make compatible reader or cards
• Privacy Protection : Personal bio data is stored in each personal card memory instead of in public memory.
• No need to manage database or Templates

Application
• Access Control / Time & Attendance

Common
• 13.56 MHz [MIFARE] Contactless IDTECK Credential Smart Card Reader
• Read Range : Up to 4 inch(10cm)
• 26bit Wiegand (default) ) / RS232 and ABA Track II (optional) Output Format

• Read Encrypted ID of Smart Card which is written by PRG2000B
• External LED Control / External Buzzer Control
• Compatible Reader : ICON100, ITDC, Third Party Controller, FINERO5DR
• Compatible Reader : FGR006SRB, FINGER006SRB

Benefits
• High security level : data protected with secure access key
• Business Protection : Without data sector and access key information, other supplier could not make compatible reader or cards
• Privacy Protection : Personal bio data is stored in each personal card memory instead of in public memory.
• No need to manage database or Templates

Application
• Access Control / Time & Attendance
## Smart Card Reader Comparison Table

<table>
<thead>
<tr>
<th>SR/SRU Series (Card Serial Number Read Only)</th>
<th>SRS Series-IDTECK Credential (Read Only)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Difference</strong></td>
<td></td>
</tr>
<tr>
<td>- 34 Bit Wiegand Output</td>
<td>- ID number reading written in a memory sector of a block, 34 Bit Wiegand and RS232 output (Default)</td>
</tr>
<tr>
<td>- RS232 (Optional)</td>
<td>- Various wiegand and ABA Track II output programmable (Optional by Request)</td>
</tr>
<tr>
<td><strong>Data</strong></td>
<td></td>
</tr>
<tr>
<td>- ID: Card Serial Number (not programmable)</td>
<td>- With PRG2000S ID programmed by user</td>
</tr>
<tr>
<td><strong>Benefits</strong></td>
<td></td>
</tr>
<tr>
<td>- High compatibility: Any smart card of ISO14443 type A/B Compatible</td>
<td>- High security level: ID number control by user or IDTECK with secure access key</td>
</tr>
<tr>
<td>- Convenient card registration: Since user or IDTECK control the ID number, card IDs are known and are in serial.</td>
<td>- Business protection: Without data sector and access key information, other supplier could not make compatible reader or cards</td>
</tr>
<tr>
<td><strong>Card type</strong></td>
<td></td>
</tr>
<tr>
<td>- MIFARE Card &amp; ISO14443 Type A (SR Series)</td>
<td>- MIFARE Card (With PRG2000S) ISCB85 IDTECK Credential Card Only (Without PRG2000S)</td>
</tr>
<tr>
<td><strong>Application</strong></td>
<td></td>
</tr>
<tr>
<td>- Access Control/Time &amp; Attendance</td>
<td>- Access Control/Time &amp; Attendance</td>
</tr>
<tr>
<td><strong>Programmer</strong></td>
<td></td>
</tr>
<tr>
<td>- No Need</td>
<td>- PRG2000S</td>
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## Smart Card Reader Comparison Table

<table>
<thead>
<tr>
<th>SR-RW Series (Reader and Writer)</th>
<th>SRB Series (Fingerprint template + ID-Read Only)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Difference</strong></td>
<td></td>
</tr>
<tr>
<td>- 34 Bit Wiegand (Default)</td>
<td>- 26 Bit Wiegand Output (Default)</td>
</tr>
<tr>
<td>- RS232/485 (Selectable)</td>
<td>- RS232 (Optional)</td>
</tr>
<tr>
<td>- 26 Bit/34 Bit wiegand output programmable</td>
<td>- 26 Bit/34 Bit wiegand output programmable with PRG2000RW</td>
</tr>
<tr>
<td><strong>Data</strong></td>
<td></td>
</tr>
<tr>
<td>- Balance or other data programmed by user</td>
<td>- ID and fingerprint template programmed with PRG2000B by user</td>
</tr>
<tr>
<td><strong>Benefits</strong></td>
<td></td>
</tr>
<tr>
<td>- High security level: data protected with secure access key</td>
<td>- High security level: data protected with secure access key</td>
</tr>
<tr>
<td>- One Card Solution: With only one card, it can apply access control, payment, debt meal and other solution</td>
<td>- Business Protection: Without data sector and access key information, other supplier could not make compatible reader or cards</td>
</tr>
<tr>
<td><strong>Card type</strong></td>
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</tr>
<tr>
<td>- MIFARE Card</td>
<td>- MIFARE Card</td>
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<tr>
<td><strong>Application</strong></td>
<td></td>
</tr>
<tr>
<td>- Cashless payment</td>
<td>- Access Control</td>
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<tr>
<td>- Membership control</td>
<td>- Time &amp; Attendance</td>
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<td>- Debt meal control</td>
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<tr>
<td>- Access Control/Time &amp; Attendance</td>
<td>- Access Control/Time &amp; Attendance</td>
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<tr>
<td>- Various other application</td>
<td></td>
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<tr>
<td><strong>Programmer</strong></td>
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<tr>
<td>- PRG2000RW</td>
<td>- PRG2000B</td>
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</table>
### Long Range Reader Selection Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>RF245</th>
<th>RF70</th>
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<tbody>
<tr>
<td><strong>26bit Wiegand Output Format</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>ABA Track II Output Format</strong></td>
<td>Yes (optional)</td>
<td>Yes (optional)</td>
</tr>
<tr>
<td><strong>RS232 Output Format</strong></td>
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<td>Yes (optional)</td>
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<tr>
<td><strong>Beeper</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Indoor / Outdoor Operation</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Reverse Polarity Protection</strong></td>
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<td>Yes</td>
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<td><strong>LED Indicator</strong></td>
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**Difference Features**

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<th>125KHz</th>
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<tbody>
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<td>Read Range</td>
<td>Passive Type</td>
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<td>IDCL70</td>
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</tr>
<tr>
<td></td>
<td>IDK50</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>IDCL25</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>IDA150</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>IDA200</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>IDA500</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>ID245</td>
<td>9.8 ~ 32.8feet (3~10m)</td>
</tr>
</tbody>
</table>

| External LED Control | N/A | Yes |
| External Buzzer Control | N/A | Yes |
| Input Port | Yes | N/A |
| Output Port | Yes | N/A |
| Dual Reading Technology (Passive / Active) | N/A | Yes |

**Options**

| Supervisory Signal | Yes | Yes |
| Bracket | Yes | Yes |

---

**IDA245**

- Read Range: 3m (10feet) with RF245-3M, 5m (17feet) with RF245-5M
- User programmable Site code, ID Number
- Life Time Active Tags w ith Replaceable Battery CR2025
- IDA245H2: Tag for a vehicle with metal coated windshield for ESD protection

**IDA150/IDA200**

- Read Range with RF70: IDA150 – up to 5 feet (1.5m) IDA200 – up to 7 feet (2.1m)
- Compatible with existing DTExx RF Reader
- ID Number Encoding of user format available (IDA150: PRG3000 Active Tag Programmer)
- Various format available
- Battery Life Time (3 Years of Validity by 10 Times Reading / Day)
Access Control and Time & Attendance Software

STARWATCH DUAL PRO I/II
STARWATCH iTDC PRO I/II
STARWATCH LX ACCESS PRO II

Structure of STARWATCH Software

<table>
<thead>
<tr>
<th>Main I/O</th>
<th>STARWATCH DUAL PRO I/II</th>
<th>STARWATCH LX ACCESS PRO II</th>
<th>STARWATCH iTDC PRO I/II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database</td>
<td>Microsoft Access</td>
<td>Microsoft SQL Server2000, MSDE</td>
<td>Microsoft SQL Server2000, MSDE</td>
</tr>
<tr>
<td>Server / Client</td>
<td>1 Server + 20 Client</td>
<td>1 Server + 20 Client</td>
<td>N/A</td>
</tr>
<tr>
<td>Structure</td>
<td>2-tier</td>
<td>2-tier</td>
<td>2-tier</td>
</tr>
<tr>
<td>Main Function</td>
<td>Access Control and Time &amp; Attendance Application</td>
<td>Access Control and Time &amp; Attendance Application</td>
<td>Access control Application with basic Time &amp; Attendance</td>
</tr>
<tr>
<td>Computer Requirement</td>
<td>CPU : Pentium-4 or Higher</td>
<td>CPU : Pentium-4 or Higher</td>
<td>CPU : Pentium-4 or Higher</td>
</tr>
<tr>
<td>Memory : 256M or Higher</td>
<td>Memory : 512M or Higher</td>
<td>Memory : 512M or Higher</td>
<td></td>
</tr>
<tr>
<td>HDD : 100G or Higher</td>
<td>HDD : 20G or Higher</td>
<td>HDD : 20G or Higher</td>
<td></td>
</tr>
<tr>
<td>Compatible Controller &amp; Reader</td>
<td>1) DUAL PRO I/II</td>
<td>2) iTDC PRO I/II</td>
<td>3) LX ACCESS PRO II</td>
</tr>
<tr>
<td>1) DUAL PRO I/II</td>
<td>Single door controller: 505R, FINGER007, FACE007, ICON100, SR505, FINGER007SR, FACE007SR, ICON100SR</td>
<td>2/4 door controller: iTDC, ITDC-SR</td>
<td>Single door controller: LX505, LX007, LX505SR, LX007SR</td>
</tr>
</tbody>
</table>

KEY Features

- **Operating system**
  - Microsoft Windows 2000 (Professional, Server),
  - Microsoft Windows XP (Home, Professional),
  - Microsoft Windows 2003 Server

- **Powerful network support**
  - TCP/IP, serial and dial-up communication available

- **Multi language support**
  - Korean, English, Spanish, Chinese, Japanese, French, Italian and others

- **Batch transmission of system setting data by specific controller**
  - Useful to download controller system setting values at once in case of initial system setting or after initialization of controllers

- **Client / Server Support**
  - STARWATCH DUAL PRO I / iTDC PRO I / LX ACCESS PRO II

- **Total monitoring on one screen**
  - All in one screen display of event status, alarm status, user data of current event with photos, map showing location of event with icons, video image of the event, events sorted by door at the same time

- **Map function**
  - Real time door status display and control with door icon on the map, video record data listing and play option
STARWATCH TIME PRO 2006

STARWATCH TIME PRO 2006 is professional time & attendance software that effectively manages most possible work rules and conditions such as multi-shift, complicated overtime work rules and more.

I. STARWATCH TIME PRO 2006 SQL : Microsoft MSDE, SQL Server Edition
II. STARWATCH TIME PRO 2006 Oracle : Oracle Edition

System Configuration (3-Tier)

<table>
<thead>
<tr>
<th>Database Server</th>
<th>Communication Server</th>
<th>Web Server</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSDE, Microsoft SQL Server 2000, Oracle 10g</td>
<td>Microsoft MSDE, SQL Server 2000</td>
<td>Oracle Edition</td>
</tr>
</tbody>
</table>

* STARWATCH TIME PRO 2006 supports 3-Tier structure. (3-Tier structure : Application / Database / Communication Server)

Comparison Table

<table>
<thead>
<tr>
<th></th>
<th>STARWATCH TIME PRO 2006</th>
<th>STARWATCH LX ACCESS PRO II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database</td>
<td>MSDE, Microsoft SQL Server 2000, Oracle 10g</td>
<td>MSDE, Microsoft SQL Server 2000</td>
</tr>
<tr>
<td>Server / Client</td>
<td>1 Server + 20 Clients</td>
<td>1 Server + 20 Clients</td>
</tr>
<tr>
<td>Structure</td>
<td>3-Tier</td>
<td>2-Tier</td>
</tr>
<tr>
<td>Main Function</td>
<td>Time &amp; Attendance Application</td>
<td>Access Control Application with basic Time &amp; Attendance</td>
</tr>
<tr>
<td>Computer Requirement</td>
<td>Pentium-4 or higher, Memory: 512M or higher, HDD: 20G or higher</td>
<td>Pentium-4 or higher, Memory: 512M or higher, HDD: 20G or higher</td>
</tr>
<tr>
<td>Compatible Controller &amp; Reader</td>
<td>Single Door Controller: LX505, LX007, 505R, FINGER007, ICON100, FGR007, LX505SR, LX007SR, FINGER007SR, FGR007SR</td>
<td>Single Door Controller: LX505, LX007, LX505SR, LX007SR</td>
</tr>
<tr>
<td></td>
<td>Multi Door Controller: iTCC, iTDC-SR</td>
<td>Multi Door Controller: iTCC, iTDC-SR SR</td>
</tr>
</tbody>
</table>

STARWATCH LX ACCESS PRO II S/W is required separately when LX505, LX007 is used for Access Control purpose

### Design your own window layout and personalize language and terms on the screen
- User-designed screen image and company logo on its windows
- Multilingual support: English, Spanish, Portuguese, Italian, French, Korean, Chinese, Japanese, Arabic, Russian
- User's own language and words conversion

### Online help and effective search
- Online help to provide immediate answers
- Person Explorer to provide one click search by person's name
- Data Explorer to provide one click search by data name

### User-oriented system configuration and options
- User-addable configuration of work type, code, reports etc and convenient options of auto closing, SM/Mail delivery options and more
- User defined payroll options (Daily, Weekly, Bi-Weekly, Semi-monthly, Monthly)

### Powerful administration functions
- Effective management of employee info, shift work setting, attendance exception setting, work schedule adjustment, etc
- Convenient modification for abnormal time and attendance data

### Dynamic reports and data connection
- User-designed report format by date, attendance code, closing result, event content, etc
- Export the report in various formats and database connection to integrate with other systems
- Report design tool 'Crystal Report 10' is required for use of user-designed report

### Extremely easy Setup Wizard for initial configuration
- Step by step initial settings and data input via Setup Wizard
STARWATCH ID BADGING PRO
ID Badge Graphic Design printing Software
KEY Features
• Easy to be added on access control system software (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

ELEVATOR PRO
Elevator Control & Monitor Software
KEY Features
• 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 VIEW PRO
Video Surveillance Integrated with Access Control System
KEY Features
• Video monitoring and management function integrated with access control system
• Easy to be added on access control system software
• Supports DVR, Web Server and Web Camera
• Multi monitor supports (16ch per each Monitor)
• Sequential view available
• Access control event and video image (I jpeg, Avi file) cooperated to provide high security
• Record user defined alarm recording time
• Support various kinds of DVR, Web camera
• Support to up to 30fps per each channel (Depends on DVR or Web Server)
• Support PTZ device
• Support full-duplex sounds
• Support Web for remote control and monitoring
• Able to set up for frame rate, compression, resolution, motion detection area, etc
• Easy configuration with Auto search function for LAN connected machine
• User defined map and camera display
• Protection by ID/Password

STARWATCH FINGERPRINT
PC based Fingerprint Recognition system
FINGERPRINT SCANNER
HAMSTER
KEY Features
• Precise user authentication through the distinct algorithm and recognition ratio
• Compact and elegant design, which is more convenient to use
• Excellent product durability that assures a long life
• Provides fast matching
• USB interface

STARWATCH FINGERPRINT ENROLLMENT PRO 2006
PC based Fingerprint Recognition system
KEY Features
1) Extension
- No limit on the number of registered persons in the case of 1:1 verification
- Supports MSSQL, Oracle, Access etc.
- Supports a number of different system configurations (Single, Client/Server)
- Supports various applications
- Easy integration with the existing system
2) Facilities
- Easy registration and recognition
- Fast reading time
- No need to carry Personal RF card, Membership card, Entrance card
- Up to 50.000 (1:N Identification)
3) High Security
- A new higher security through various limitation of each administrator ID
- Able to search or print out fingerprint and facial information stored
- Systematic report on attempt and details of authentication

KEY Features
• Easy registration and transmission of fingerprints templates using Windows software
• Able to view fingerprint image during the registration using Hamster, USB fingerprint scanner
• Fingerprint quality check
• Supports Serial Communication, TCP/IP Communication (optional external converter needed)
• Able to observe the status of fingerprint data transmission using a separate window
• No need to go through complex data entry process
• Supports Text, Excel data export
• Server / Client support
• Compatible Hardware: FGR006 / FGR006EX / FGR006SR / FGR006EX / FGR006SR / IP-FGR007HA

KEY Features
• 4 Easy to be added on access control system software
• 4 Compatible with various card printer such as Eltron and Fargo etc
• 4 Easy card design tool
• 4 Batch card issuing available based on database
• 4 Print preview
• 4 Image capturing from PC camera, Digital camera and Scanner
• 4 Card issuing history report
# STARWATCH PRO SOFTWARE Selection Guide

## Product

<table>
<thead>
<tr>
<th>Product</th>
<th>STARWATCH DUAL PRO I</th>
<th>STARWATCH DUAL PRO II</th>
<th>STARWATCH LK ACCESS PRO II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller</td>
<td>ICON100 Series</td>
<td>ICON100 Series</td>
<td>L5X05</td>
</tr>
<tr>
<td></td>
<td>FINGER Series</td>
<td>FINGER Series</td>
<td>L5X07</td>
</tr>
<tr>
<td></td>
<td>505R Series</td>
<td>505R Series</td>
<td></td>
</tr>
</tbody>
</table>

## General

|-------------------------|--------------|--------------|--------------|--------------|--------------|

## Client Operating System

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## Dial-up Modem

| Yes | Yes | Yes | Yes | Yes |

## Top/IP Communication

| Yes | Yes | Yes | Yes | Yes |

## Central Alarm Monitoring

| Yes | Yes | Yes | Yes | Yes |

## Central Database Management

| No | No | No | No | No |

## Online Help Support

| Yes | Yes | Yes | Yes | Yes |

## Multi Language Support

| Yes | Yes | Yes | Yes | Yes |

## System Capacity

<table>
<thead>
<tr>
<th>Maximum Readers</th>
<th>32<em>99</em>2</th>
<th>255<em>99</em>4/5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Supervised Inputs</td>
<td>32<em>99</em>15</td>
<td>255<em>99</em>15</td>
</tr>
<tr>
<td>Maximum Outputs</td>
<td>32<em>99</em>4</td>
<td>255<em>99</em>4/5</td>
</tr>
</tbody>
</table>

## Access Control Specifications

<table>
<thead>
<tr>
<th>Visitor Manager</th>
<th>Yes</th>
<th>Yes</th>
<th>Yes</th>
<th>Yes</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration Mode</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Anti-pass Back Protection mode</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Elevator Control</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Time Zone Rule Access Control</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Intercom System Interface</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Video Surveillance Application</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fire/Building Alarm System</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Multiple Access Group</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Alarm Input Power Fail</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Rolling Transaction Display</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Guard Tour</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## Relational Database

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Supported</td>
<td>Export</td>
<td>Export</td>
<td>Export</td>
<td>Export</td>
</tr>
</tbody>
</table>

## Database Partitioning

| Yes | Yes | Yes | Yes | Yes |

## Search on any Field

| Yes | Yes | Yes | Yes | Yes |

## Automatic Card Activation / Deactivation

| Yes | Yes | Yes | Yes | Yes |

## Support for Badge Status (Lost, etc)

| No | No | No | No | No |

## Bulk Card Addition/Deletion

| No | No | No | No | No |

## Networking Protocols

| Yes | Yes | Yes | Yes | Yes |

## Self Diagnostic

| Yes | Yes | Yes | Yes | Yes |

## Escalation Processor

| Yes | Yes | Yes | Yes | Yes |

## Scalable Memory

| No | No | No | No | No |

## Maximum Cardholders per Controller

| 10,000 | 20,000 | 10,000 | 20,000 | 10,000 |

## Operating System

| Yes | Yes | Yes | Yes | Yes |

## Flash Memory

| No | No | No | No | No |

## Maximum Readers per Controller

| 2 | 4 | 2 | 4 | 2 |

## Onboard Ethernet

| No | Yes | No | Yes | No |

## Encryption

| Yes | Yes | Yes | Yes | Yes |

## Peer-to-peer Communications

| No | No | No | No | No |
### STAR Demo Kit

**RF READERS (125KHz Proximity)**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10</td>
<td>1</td>
</tr>
<tr>
<td>RF20</td>
<td>1</td>
</tr>
<tr>
<td>RF TINY</td>
<td>1</td>
</tr>
<tr>
<td>RF30</td>
<td>1</td>
</tr>
<tr>
<td>IDK50</td>
<td>2 of each</td>
</tr>
</tbody>
</table>

**100R / PIN120 (Standalone)**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>100R</td>
<td>1</td>
</tr>
<tr>
<td>PIN120</td>
<td>1</td>
</tr>
<tr>
<td>MOTOR SENSOR</td>
<td>1</td>
</tr>
<tr>
<td>RF30</td>
<td>1</td>
</tr>
<tr>
<td>IDK50</td>
<td>1 of each</td>
</tr>
</tbody>
</table>

**RFL200 (Standalone)**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFL200</td>
<td>1</td>
</tr>
<tr>
<td>IK50</td>
<td>1</td>
</tr>
<tr>
<td>RADIO</td>
<td>1</td>
</tr>
<tr>
<td>MASTER CARD</td>
<td>1</td>
</tr>
</tbody>
</table>

### Contents

- Accessories: Lamp, Door Contact, AC Input, RS232 Port, Exit Button, Power Supply, Cables (Power, Comm.)
- RS422/RS232 Serial Converter.

**STAR Demo Kit**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Qty</th>
</tr>
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<tbody>
<tr>
<td>IKON100SR</td>
<td>1</td>
</tr>
<tr>
<td>13.56MHz MIFARE Reader</td>
<td>1</td>
</tr>
</tbody>
</table>

**ITDC + 125KHz Reader**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITDC</td>
<td>1</td>
</tr>
<tr>
<td>RP10</td>
<td>1 of each</td>
</tr>
<tr>
<td>RF30</td>
<td>1 of each</td>
</tr>
<tr>
<td>SR30</td>
<td>1 of each</td>
</tr>
<tr>
<td>IMC135</td>
<td>2 of each</td>
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</tbody>
</table>

**ELEVATOR PRO 384**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEVATOR 384</td>
<td>1</td>
</tr>
<tr>
<td>RP10</td>
<td>1</td>
</tr>
<tr>
<td>IMC135</td>
<td>1</td>
</tr>
<tr>
<td>IDK50</td>
<td>1 of each</td>
</tr>
<tr>
<td>ICC01</td>
<td>1</td>
</tr>
</tbody>
</table>

### Contents

- Accessories: Lamp, Door Contact, AC Input, RS232 Port, Exit Button, Power Supply, Cables (Power, Comm.)
- RS422/RS232 Serial Converter.

**FINGER007**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Qty</th>
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<tbody>
<tr>
<td>FINGER007</td>
<td>1</td>
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</table>

**FINGER007 + FGR006**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINGER007</td>
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</tr>
<tr>
<td>FGR006</td>
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**FGR007A**

<table>
<thead>
<tr>
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<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>FGR007A</td>
<td>1</td>
</tr>
</tbody>
</table>

**Facial Recognition SDK**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>FGR007A</td>
<td>1</td>
</tr>
</tbody>
</table>

**IP-FGR007HA**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP-FGR007HA</td>
<td>1</td>
</tr>
</tbody>
</table>

### Accessories

- Accessories: Lamp, Door Contact, AC Input, RS232 Port, Exit Button, Power Supply, Cables (Power, Comm.)
- RS422/RS232 Serial Converter.

---

**Contents**

- **RF READERS (125KHz Proximity)**
  - RF10
  - RF20
  - RF TINY
  - RF30
  - IDK50

- **100R / PIN120 (Standalone)**
  - 100R
  - PIN120
  - MOTOR SENSOR

- **RFL200 (Standalone)**
  - RFL200
  - IK50
  - RADIO

**ITDC + 125KHz Reader**

- ITDC
  - RP10
  - RF30
  - SR30

**ELEVATOR PRO 384**

- ELEVATOR 384
  - RP10
  - IMC135

**FINGER007**

- FINGER007

**FINGER007 + FGR006**

- FINGER007
  - FGR006

**FGR007A**

- FGR007A

**Facial Recognition SDK**

- FGR007A

**IP-FGR007HA**

- IP-FGR007HA
The Package product which has full items of Access control system will give you the complete solutions with effective cost for any site.

**IDTECK PACKAGE Configuration**
- **1**: NEMA CASE + CONTROL BOARD + NFB SWITCH + POWER BOARD (DC13V/3A) + BACK UP BATTERY (DC12V/7AH)
- **2**: NEMA CASE + CONTROL BOARD + NFB SWITCH + POWER BOARD (DC13V/3A x 2) + BACK UP BATTERY (DC12V/4AH x 2)
- **3**: POWER PACK - NEMA CASE + POWER BOARD (DC13V/3A) + NFB SW + BACK UP BATTERY (DC12V/7AH)

---

### Single Door Controller with RF Reader Pack / Antipassback
**PKG-1A**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Q'ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>iCON100 Controller with Nema Case (*1)</td>
<td>1</td>
</tr>
<tr>
<td>RF10</td>
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<tr>
<td>IDC80</td>
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<tr>
<td>Door Lock (IEM280(LED))</td>
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### Single Door Controller with RF Reader Pack
**PKG-1B**

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<tr>
<td>Exit Button (EB800L)</td>
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### Single Door Controller with RF & Bio Reader Pack / Antipassback
**PKG-2A**

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### Single Door Controller with Bio Reader Pack
**PKG-2B**

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### 2 Door Controller with RF Reader Pack / Antipassback
**PKG-3A**

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### 2 Door Controller with RF Reader Pack
**PKG-3B**

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### 2 Door Controller with RF & Bio Reader Pack
**PKG-4A**

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### 2 Door Controller with RF Reader Pack
**PKG-4B**

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### 4 Door Controller with RF Reader Pack / Antipassback
**PKG-5**

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### 4 Door Controller with RF Reader Pack
**PKG-6**

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### Standalone / Network Access Control Pack (with 505R)
**PKG-7**

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### Fingerprint Access Control Pack Antipassback (with FINGER007)
**PKG-8**

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### Fingerprint Access Control Pack (with FINGER007)
**PKG-9**

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**Network Multi Door Access Control Pack (with RFL200C)**
PKG-12

**Standalone Single Door Access Control Pack (with RFL200)**
PKG-11

**Single Door Standalone Access Control Pack (with 100R)**
PKG-13

**Time & Attendance with 505R Pack**
PKG-14

**Time & Attendance with 505R Pack**
PKG-15

**Fingerprint Access Control Pack (with FGR007A)**
PKG-16

**Fingerprint Access Control Pack (with IP- FGR007HA)**
PKG-17

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**TCP / IP Converter**

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<td>Baud rate</td>
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**NetEye 1005A**

- External Serial to Ethernet Converter
- M Serial module device for Network connectivity
- TCP/IP Kernel and Ethernet installed
- RS-232, RS-422, RS-485 (optional) supported

**Serial Converter**

NetEye 1005S A/INC300 / INC400

- No extra power required
- INC300: RS-485 Single Converted to RS-322
- INC400: RS-422 Single Converted to RS-322
- Automatic send data line control
- Type A includes connection cable

NetEye 1005S A/INC300 / INC400

- RS-422 signal converted to RS-322
- Wiegand or Point-to-Point Communication type
- Built in Surge Protector
- Power: (AC85V ~ AC250V)
- DC12V/50mA

**Wiegand Repeater**

- 1 Pair Wiegand Data Repeater
- WIK Repeater TX, RX
- Connect WIK Repeater (TX) to RF Reader
- Connect WIK Repeater (RX) to Controller
- Power: DC12V/30mA

**Wiegand Converter**

- Reader Output Data Converter

**Dial-Up Modem**

ROADSTER V.92
**Accessories**

**Power Pack**
- ID40WA
  - Output: DC 13V, 3.0A
  - Input: AC 90 ~ 240V, 50/60Hz
  - FCC Class B

**NFB Switch**
- AC100 ~ 240V 30A

**Backup Battery**
- 2~6 hr operation available when primary power fails
- 12V, 7A

**KEY Features**
- Designed to provide complete power for access control system
- Power source changes automatically AC to DC (DC to AC) when AC Power fails (Recovery)
- Over voltage and current protection
- Built-in Battery recharge circuit
- Alarm signal for AC Power fail
- Alarm signal for low battery voltage

**Electromagnetic LOCK Series**

**IEM 180**
- Single Door Magnetic Lock (180Kg)
- Dimension: 250W x 42H x 25D (mm)
- Holding Force: 180Kg
- Current Draw: 480mA at 12VDC / 240mA at 24VDC
- Suitable for Wooden Door / Glass Door / Metal Door / Fire Proof Door

**IEM 180D**
- Double Door Magnetic Lock (180Kg)
- Dimension: 170W x 35H x 21D (mm)
- Holding Force: 180Kg
- Current Draw: 300mA at 12VDC / 150mA at 24VDC
- Suitable for Wooden Door / Glass Door / Metal Door / Fire Proof Door

**IEM 280**
- Single Door Magnetic Lock (280Kg)
- Dimension: 500W x 42H x 25D (mm)
- Holding Force: 280Kg
- Current Draw: 480mA at 12VDC / 240mA at 24VDC
- Suitable for Wooden Door / Glass Door / Metal Door / Fire Proof Door

**IEM 280D**
- Double Door Magnetic Lock (280Kg)
- Dimension: 340W x 35H x 21D (mm)
- Holding Force: 280Kg
- Current Draw: 300mA at 12VDC / 150mA at 24VDC
- Suitable for Wooden Door / Glass Door / Metal Door / Fire Proof Door

**IEM 280M**
- Single Door Magnetic Lock with Mortise Mount (280Kg)
- Dimension: 266W x 67H x 39D (mm)
- Holding Force: 500Kg
- Current Draw: 420mA at 12VDC / 210mA at 24VDC
- Suitable for New building: Wooden Door / Glass Door / Metal Door / Fire Proof Door

**IEM 280D(LED)**
- Double Door Magnetic Lock with LED (280Kg)
- Dimension: 340W x 35H x 21D (mm)
- Holding Force: 280Kg
- Current Draw: 480mA at 12VDC / 240mA at 24VDC
- Suitable for Wooden Door / Glass Door / Metal Door / Fire Proof Door

**IEM 500**
- Single Door Magnetic Lock with LED (500Kg)
- Dimension: 250W x 42H x 25D (mm)
- Holding Force: 500Kg
- Current Draw: 480mA at 12VDC / 240mA at 24VDC
- Suitable for Wooden Door / Glass Door / Metal Door / Fire Proof Door

**IEM 500D**
- Double Door Magnetic Lock with LED (500Kg)
- Dimension: 532W x 67H x 39D (mm)
- Holding Force: 280Kg
- Current Draw: 480mA at 12VDC / 240mA at 24VDC
- Suitable for Wooden Door / Glass Door / Metal Door / Fire Proof Door

**Guard Tour Checking System Touch Checker**

**TC200**
- Efficient Management & Supervision over Patrol, Security Checker, and Patrol Checking Point
- Dual Function for checking system: Contact Button / Contactless RFID Reader (Selectable)
- Able to use 125KHz ASK[EM] / 13.56MHz MIFARE RFID Tag according to user choice for RFID Reader
- Vibration Mode Selectable (Optional)
- User Friendly data interface using USB Port
- Long Durability & Quick Recharge Battery
- Easy Expansion: Over 10,822 Patrol Point
- Water-proofed

**Power Adapter**

**IPA100**
- AC 110V ~ 220V, Output DC 12V, 1.5A
- Suitable for 505R, 100R, FINGER007, RFL200

**Operating Software**

**Serial / USB Cable**

**Check Point Chip (RFID Tag)**

**Leather Carrying Case**

**Data Transmitter & Charger**

**Checkpoint Chip (i-Button)**

**Checking Machine**

**Power Adapter**

**Leather Carrying Case**

**Checkpoint Chip (RFID Tag)**

**Operating Software**

**Checking Machine**

**Data Transmitter & Charger**

**Checkpoint Chip (i-Button)**

**Leather Carrying Case**
## Accessories

### Electric Strike Series

**IES130NO/130NC** Standard Electric Strike
- **Dimension:** 160W x 25H x 28D (mm)
- **Voltage:** DC12V
- **Current:** 450mA (IES130NO) / 200mA (IES130NC)
- **Suitable for:** Wooden Door / Metal Door
- **Fail Secure:** IES130NO  •  **Fail Safe:** IES130NC

**IES131NO/131NC** Short-type Electric Strike
- **Dimension:** 160W x 25H x 28D (mm)
- **Voltage:** DC12V
- **Current:** 200mA
- **Glass Thickness:** 8~12mm
- **Suitable for Door:** Glass Door
- **Fail Secure:** IES131NO  •  **Fail Safe:** IES131NC

**IES132NO/132NC** Long-type Electric Strike
- **Dimension:** 250W x 25H x 28D (mm)
- **Voltage:** DC12V
- **Current:** 450mA (IES132NO) / 200mA (IES132NC)
- **Suitable for Door:** Wooden Door / Metal Door
- **Fail Secure:** IES132NO  •  **Fail Safe:** IES132NC

**IES133NC** Fail Safe Electric Strike is Suitable for Glass Door
- **Dimension:** 160W x 25H x 28D (mm)
- **Voltage:** DC12V
- **Current:** 200mA
- **Suitable for Door:** Wooden Door / Metal Door
- **Fail Secure:** IES133NC

### Electric Dead Bolt (Drop Bolt) Series

**IEB100** Fail Safe Electric Bolt with Magnetic Feature
- **Dimension:** 25W x 35H x 40D (mm)
- **Voltage:** DC12V
- **Current:** 120mA
- **Suitable for Door:** Wooden Door / Glass Door / Metal Door / Fire Proof Door
- **Time:** 0, 3, 6, 9 s  •  **Fail Safe:** Locked when energized

**IEB200** Fail Safe Electric Bolt with Monitoring LED
- **Dimension:** 25W x 35H x 40D (mm)
- **Voltage:** DC12V
- **Current:** 120mA
- **Suitable for Door:** Wooden Door / Glass Door / Metal Door / Fire Proof Door
- **Time:** 0, 3, 6, 9 s  •  **Fail Safe:** Locked when energized

**IEB300** Fail Safe Electric Bolt with Magnetic Feature
- **Dimension:** 25W x 35H x 40D (mm)
- **Voltage:** DC12V
- **Current:** 120mA
- **Suitable for Door:** Wooden Door / Glass Door / Metal Door / Fire Proof Door
- **Time:** 0, 3, 6, 9 s  •  **Fail Safe:** Locked when energized

**IEB400** Fail Safe Electric Bolt is Special for Auto-Door
- **Dimension:** 25W x 35H x 40D (mm)
- **Voltage:** DC12V
- **Current:** 120mA
- **Suitable for Door:** Auto-Door
- **Time:** 0, 3, 6, 9 s  •  **Fail Safe:** Locked when energized

**IEB500** Fail Safe Electric Bolt with Adjustable Ball Feature
- **Dimension:** 25W x 35H x 40D (mm)
- **Voltage:** DC12V
- **Current:** 120mA
- **Suitable for Door:** Wooden Door / Glass Door / Metal Door / Fire Proof Door
- **Time:** 0, 3, 6, 9 s  •  **Fail Safe:** Locked when energized
Electric Dead Bolt (Drop Bolt) Brackets

IBK600 - The Stainless Steel Bracket is for Frameless Glass Door

- Glass Thickness: 8-15mm
- Suitable for Door: Swing Door
- Suitable for: EB20/EB10/EB200/EB201
- Dimension: 205W x 58H x 46D (mm)

IBK700 - The Stainless Steel Bracket is for Frameless Glass Door

- Glass Thickness: 8-15mm
- Suitable for Door: Swing Door
- Suitable for: IBK600/IBK700/EB200/S
- Dimension: 20W x 58H x 46D (mm)

Exit Button

EB20/EB10

- The Door Release Button with Double Feature (NO/NC)
- Type: Normal Open / Normal Close
- Material: Stainless Steel

EB801

- The Door Release Button with Double Feature (NO/NC)
- Dimension: 10mm (External Diameter), 8mm (Internal Diameter)
- Type: 22AWG UL 1007 Heatproof PVC able
- Material: Stainless Steel

EB800L/EB800S

- The Door Release Button with Double Feature (NO/NC)
- Dimension:
  - EB800L: 86W x 86H (mm)
  - EB800S: 86W x 50H (mm)
- Type: Normal Open / Normal Close
- Material: Stainless Steel

Lock Accessories

EH9 - Electric Hinge

- Installed between door frame and door to prevent cable damage from door activity. It also prevents external attempts of cutting and damaging the cable. (Hidden design)
- Dimension: 200H x 50W x 40D (mm)
- Cable: 22AWG U/UL 1007 Heatproof PVC cable
- Cable Length: 2000mm, 9 PIN connector
- Material: Stainless Steel Sheet

DC10 - Door Cord

- Installed between door frame and door to prevent cable damage from exposed cable. It also prevents external attempts of cutting and damaging the cable. (Exposed design)
- Dimension: 10mm (External Diameter), 8mm (Internal Diameter)
- Cable: 22AWG U/UL 1007 Heatproof PVC cable
- Material: Stainless Steel Sheet

Miscellaneous

EK55 - Emergency KEY Switch

- Used to monitor device On/Off activity. Key activity for On/Off status signal at the point of contact is without voltage. Installed on external side of door in case of emergency to override the access control. If the door does not open in an emergency, activate the key to open the door.
- Dimension: 10mm (External Diameter)
- Type: Normal Open / Normal Close
- Material: Stainless Steel

EBG02 - Break Glass Fire Emergency Exit Release

- It is connected to a device to activate the siren and alarm output in an emergency. Installed on external side of door in case of emergency to override the access control. If the door does not open in an emergency, use the attached hammer to break the glass to open the door.
- Dimension: 10mm (External Diameter)
- Type: Normal Open / Normal Close
- Material: Stainless Steel Sheet

PIR100 - PIR Sensor

- Used in access control system as a sensor by connecting to a controller. It is installed on external side of door by using infrared sensor to send signal to device to open the door. Signal output at the point of contact is without voltage.
- Sensor Type: Infrared (Radiant heat)
- Sensor Area: Solid: Linear 3m (Plane: 18m x 3m)
- Output: DC 5V ~10V
- Temperature: -30°C ~ 60°C (32°F ~140°F)

EB20/EB10

- The Door Release Button with Double Feature (NO/NC)
- Dimension:
  - EB20: 43W x 86H x 45D (mm)
  - EB10: 38W x 50H x 38D (mm)
- Type: Normal Open / Normal Close
- Material: Stainless Steel

EBG01 - Break Glass Fire Emergency Exit Release

- It is connected to a device to activate the siren and alarm output in an emergency. Installed on external side of door in case of emergency to override the access control. If the door does not open in an emergency, use the attached hammer to break the glass to open the door.
- Dimension: 10mm (External Diameter)
- Type: Normal Open / Normal Close
- Material: Stainless Steel Sheet

DC100 - Door Contact

- Used to monitor device On/Off activity. Key activity for On/Off status signal at the point of contact is without voltage. Installed on external side of door in case of emergency to override the access control, if the door does not open in an emergency. Activate the Key to open the door.
- Standard Surface Contact (N/C, N/O Loop)
- Magnetic Type: Ferrite Magnet

PIR100

- The PIR Sensor is used in access control system. It is connected to the controller to send signal to the device to open the door. Signal output at the point of contact is without voltage.
- Sensor Type: Infrared (Radiant heat)
- Sensor Area: Solid: Linear 3m (Plane: 18m x 3m)
- Output: DC 5V ~10V
- Temperature: -30°C ~ 60°C (32°F ~140°F)
Security Level

1st Level: PIN Only
- Basic Access Control
- 4 to 6 digit PIN

2nd Level: RF (PIN) + P/W (Password)
- Double Check Access Control
- Combination of RF (PIN) + P/W (Password)

3rd Level: RF (PIN) + P/W (Password) + Fingerprint
- Triple Check Access Control
- 1:1 Verification (Less than 1 sec.)
- 1:1 Identification (Less than 2 sec.)

4th Level: RF (PIN) + P/W (Password) + Face Recognition + Fingerprint
- Multi Modal High-End Security Access Control
- Fingerprint + Facial Algorithm

5th Level: RF (PIN) + P/W (Password) + Face Recognition + Fingerprint + Speaker Recognition
- Multi Modal High-End Security Access Control
- Speaker Recognition + Voice Algorithm