

Endorsed By:



CASTLE[®]

TOTAL SECURITY SOLUTION



INNERSCAN FINGERPRINT

TECHNOLOGIES BEYOND IMAGINATION

- Skin's inner layer authentication
 - Security access control management
- Online time attendance system

TECHNICAL SPECIFICATION

READER INTERFACE

Card Reading Distance (10 digits)	Mifare [®] = ± 5cm Proximity = ± 8cm	Processor	16 bits microcontroller
Sensor	TruePrint [®]	Clock System	Onboard I2C real time clock with battery backup
Fingerprint Template	1254 Bytes/template	EPROM/Flash	128KByte
Fingerprint Capture Time	± 1 second	RAM	SDRAM 4MByte
Housing	Well designated and high grade ABS casing to protect the reader and PCB.	Watchdog	Internal watchdog timer and external watchdog circuit
Controller Display Unit	Graphic 35 x 133 LCD w/03 blue backlit display	Battery Backup	NiCad 5.6 Vdc onboard rechargeable battery
Operating Temperature	0 - 55 °C	Baud Rate (DIU to reader)	19200bps
Humidity	95% non-condensing	EMI Protection	Onboard EMI protection for relay output
UART Capacity	6 UART (expandable to 10 UART)	Audible Device	Onboard 12 Vdc buzzer
DIP Switch Setting	4 way address setting	Input Voltage	10 Vdc - 13.8 Vdc
Power Connector	Polarity protection for power termination.	Input Current	1A
Cabling	RS485 standard cabling (Belden 24awg 1419A)	Communication Cable Usage	2 Pairs For Door Interface To Reader Interface
Electronic Key (E-Key)	Override emergency key		

CONTROLLER

Input/ Output	4 Supervised inputs /5 relay output	Processor	35 bits microprocessor
Door Coconnectivity	Single Door/ Multiple Door Capabilities	Clock System	Onboard I2C real time clock with battery backup
Short Message Services (SMS)	Inbound and Outbound	EPROM/Flash	128KByte
Optional interface	Ethernet, GSM Transceiver, Modem Connectivity	RAM	SDRAM 4MByte
Housing	Metal casing coated with epoxy	Watchdog	Internal watchdog timer and external watchdog circuit
Display Unit	2x20 characters LCD display	Battery Backup	NiCad 3.6Vdc onboard rechargeable battery
Baud Rate (PC to CTR)	19200bps	EMI Protection	Onboard EMI protection for relay output
Baud Rate (CTR to reader)	19200bps	Audible Device	Onboard 12Vdc buzzer
Communication Cable Usage	1 pair for PCI to controller and 1 pair to reader interface	Input Voltage	10Vdc - 13.8Vdc
Operating Temperature	0 - 55 °C	Input Current	1A
Humidity	95% non-condensing	Power Connector	Polarity protection for power termination
UART Capacity	6 UART (expandable to 10 UART)	Cabling	RS485 standard cabling (Belden 24awg 1419A)
DIP Switch Setting	4 way address setting	Alarm Features	Available
Programming Mode Security	2 level of password + Technician password + Master password	Operation Mode	<ul style="list-style-type: none"> + Card mode + Card + Pin mode + Card + Finger print mode + Card + Pin + Finger print mode + Finger ID + Finger print mode + Speed access finger print mode only + Pin mode only
Timer Zone	555 sets	Buzzer	On board buzzer for audible feedback
Holiday setting	60 sets programmable holiday	Event Transaction	Up to 10,000 transaction storage
Anti-passback Features	Available	Storage Transaction	Upgradable to 1,000 user template storage
Timer	555 sets include 2 default settings	Dual Finger Mode	Multiple finger for one ID mode
Output	User configurable event output / general purpose output	Operating Frequency	Based on full 35 bits MCU 24 MHz design single door control system
Programming Setting	16 keys of keypad for menu driven programming	Door Wiring	Door lock, door release button and door sensor are connected to controller in order to provide more security against the unauthorized break in.

Ordering Information

Stock Code	Description	Dimension / Weight
InnerScan-ID	InnerScan single door controller	H: 40.0 x W: 24.4 x D: 7.5cm / 0.3 Kg
InnerScan-PX	Inner Fingerprint Scanner c/w Proximity reader, 16 keys silicon rubber keypad, reader interface unit, e-key & ABS casing with blue graphic LCD	H: 18.0 x W: 12.0 x D: 4.3 cm / 0.5 Kg
InnerScan-MF	Inner Fingerprint Scanner c/w Smartcard reader, 16 keys silicon rubber keypad, reader interface unit, e-key & ABS casing with blue graphic LCD	H: 18.0 x W: 22.0 x D: 4.3 cm / 0.6 Kg
InnerScan-BI	Inner Fingerprint Scanner c/w Smartcard reader, 16 keys silicon rubber keypad, reader interface unit, e-key & ABS casing with blue graphic LCD	H: 18.0 x W: 22.0 x D: 4.3 cm / 0.6 Kg
I CIP5-I/16	i-Soft Standard c/q PC-interface unit (Optional = 1 to 16 Controller Versions)	H: 15.0 x W: 9.0 x D: 2.5 cm /0.5 kg

SOFTWARE FEATURES

The SmartGuard software is designed for ease of use by all levels of user. It runs on the most popular operating system—Microsoft Windows

Features

Standard visual DBASE file format as transaction storage for easy integration

Flexible menu access level

Dual-Finger mode

Dynamic graphical floor plan displaying upon alarm triggering

Dynamic card user photo image

Comprehensive working shift setting

Informative time attendance reports

Useful system 'Log Out' function which will locked the system, without shutting down the system

256 sets of user definable operation time set, time zone and door accessibility setting

10 sets of Local PINs to access through a particular door for the controller

10 sets of Global PINs to access through all the doors in the system

10 sets of speed finger print users to access through all the doors for the controller

10 sets of user definable door interlocking group

2 sets of local alarm PINs

3 sets of GSM phone setting for the controller

20 types of transaction code for event triggering relay

Operation Mode + Card only + Finger ID + Finger print + Card + Finger print + Card + Pin + Finger print + Dual finger

2 extra users definable data field in maintaining the card user management module

Online transaction display + Latest transaction + Latest alarm + Floor plan + Controller list + Door list + Individual card user transaction

SYSTEM CONFIGURATION



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