# CASTLE

## TOTAL SECURITY SOLUTION



**PRO-NDT** 



CASTLE® presents you its latest Access Control System - SCAN-X. The SCAN-X is robust in appearance and is embedded with the cap-sensing technology sensor. With this, the safety has gone up and therefore, you worry less about intruders.

Multi-Door Access System

Since 1995, our brand name Castle® and our security solutions trusted by million of users globally. We had successful penetrate over 30 country accoss Asia, Middle East, Africa and many more. There are thousands of Castle's systems used by the banking industry, corporate industry, academic, government, hospital and commercial clients.

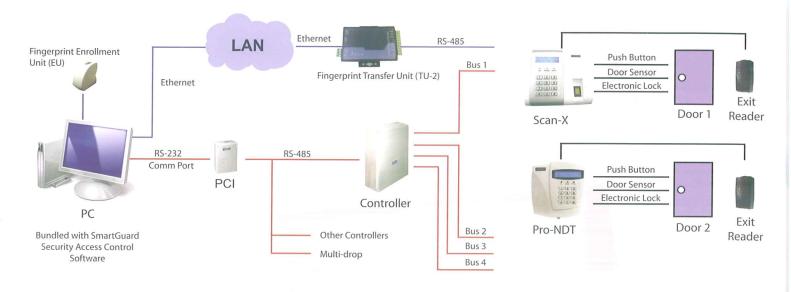
Castle® R&D continuosly keep to world's security needs and constantly developing innovative software and hardware, that use to track and identify people through biometric or cards access readers.







#### SYSTEM CONFIGURATION



### **TECHNICAL SPECIFICATION**

#### **CONTROLLER**

Microprocessor Models

**Operating Frequency** 

Clock System

EPROM/ Flash

RAM

Watchdog

Battery Back-up for Memory

Type of Storage System Used

Operating Temperature Range

**Baud Rate** 

Controller Display Unit

Maximum Card Storage Capacity

Communication Cable Used

Maximum Length of Communication

Recommended Cable Type

Input Voltage

Input Voltage Tolerance

Rated Current Input

Number of Controllers Supported

Number of Readers Supported

Reader Supported

Reader Format Supported

Operation Mode

Fingerprint Matching Only

Maximum Fingerprint Templates Storage Capacity

(per reader only)

Controller Housing

Time Sets

Time Zone

User Accessibility

Support Multi-Door and Anti-pass Back

Holidays

Controller Programming Mode Security

Diagnostic Systems Programming Mode Fire Alarm Input

Relay Output

Philips PXA 8051

24 MHz

Real-time clock

128K Bytes

1 M Bytes

1 Internal and 1 external

3.6V onboard rechargeable backup battery

Static RAM

0-65 ° C

9600 (Controller to reader), 2400 (PC to controller)

20 Characters x 2 rows liquid crystal display with back-light

10,000 cards user and 30,000 transactions

1 Pair RS-485 from reader to controller for each bus

1 Pair RS-485 from controller to PCI

1 Pair RS-485 from reader to fingerprint transfer unit (Optional for Fingerprint System Only)

1 KM (cable length)

RS485 shielded twisted pair (Belden 1419A)

12V DC

11V-13.8 V DC

1A

16 or 32 Controllers (depends on software version)

16 Doors 32 Readers (depends on controller types)

-HID, Proximity, Contact-Less & Smart Card

-Fingerprint (Capacitive Sensor)

-Magnetic signal

-Wiegand 26 bits

Card, PIN only, Finger(Scan-X only), Card+Finger (Scan-X only)

1:1000

3000

ABS casing

256 time sets (3 intervals per zone)

256 time zone (7 days +2 Holidays per zone)

256 set

Yes

60 dates programmable holiday

3 Level of Passwords: Diagnostic, Alarm & Programming

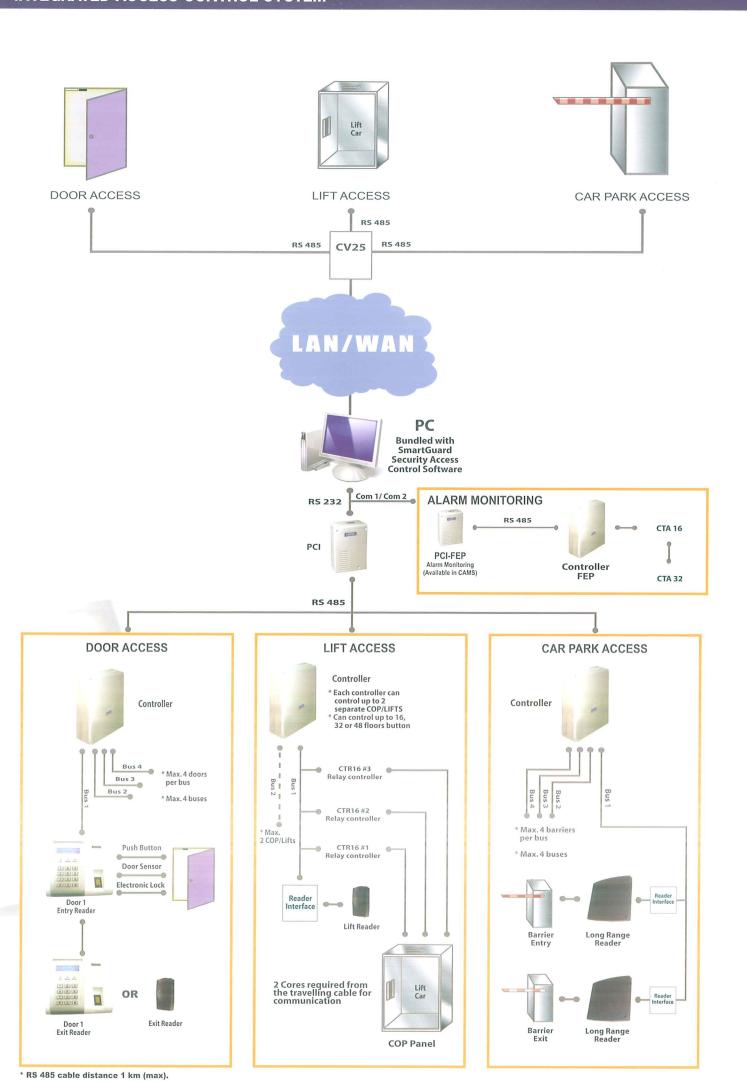
Yes

Menu driven programming & software programming

Yes

-Auxiliary Relay Output (20 type programmable events)

-General Purpose Output (Time Zone Control Output)



#### **ORDERING INFORMATION** RECOMMENDED ACCESSORIES STOCK CODE STOCK CODE **DESCRIPTION** CONTROLLER DESCRIPTION CAS-2S 2 doors controller 3A/ 13.8Vdc power supply unit with battery charger Platinum kit CAS-4S 4 doors controller 600LB 12Vdc, 600lbs electric magnetic lock Bat7 7AH sealed lead acid rechargeable battery CAS-8S 8 doors controller Communication Belden RS 485 cable CAS-12S 12 doors controller Cable CAS-16S 16 doors controller 291H x 194W x 81D mm EBG / MSC Emergency break glass/ Magnetic contact READER STOCK CODE DESCRIPTION Fingerprint reader c/w 12 keys polycarbonate keypad, reader interface unit, ABS casing with blue LCD SCAN-X & with capacitive fingerprint sensor. (Format: Wiegand 26 bits) SCAN-IC Fingerprint contact-less smart card reader (Mifare card serial number) c/w 12 keys polycarbonate keypad, reader interface unit, ABS casing with blue LCD & with capacitive fingerprint sensor. (Format: 154H x 168W x 39D mm Wiegand 26 bits) PRO-NDT Proximity reader c/w 12 keys polycarbonate keypad, reader interface unit & ABS casing with blue LCD (Format: Magnetic signal) PRO-NDH HID proximity reader c/w 12 keys polycarbonate keypad, reader interface unit & ABS casing with blue LCD (Format: Wiegand 26 bits) CAS-IC Contact-less smart card reader (Mifare card serial number) c/w 12 keys polycarbonate keypad, reader 174H x 167W x 38D mm interface unit & ABS casing with blue LCD (Format: Magnetic Signal) **OTHER** STOCK CODE DESCRIPTION COMPONENTS PCI PCI-STD PC-interface unit c/w SmartGuard Standard software. 16 controllers version. Able to manage door/ car park access. PC-interface unit c/w SmartGuard Pro software. 16/32 controller version. PCI-PRO/PCI-PRO2 Able to manage door/ lift/ car park access. 174H x 167W x 38D mm PC-interface unit c/w SmartGuard Pro Remote multiple site monitoring software. PCI-PRORM CV2588 16 controller version. Able to manage door/ lift/ car park access. PCI-RMAGN PC-interface unit c/w remote program data collector. PCI-C/S-1A PC-interface unit c/w Smart Guard Client-Server software. 16 controllers version. Able to manage door/ lift/ car park access. 226H x 151W x 50D mm PCI-C/S-2A PC-interface unit c/w Smart Guard Client-Server software. 32 controllers version. Able to manage door/ lift/ car park access. TRANSFER UNIT PCI-C/S-RM1A PC-interface unit c/w Smart Guard Client-Server Remote software. 16 controllers version. Able to manage door/lift/car park access. CAS-OCX PC-interface unit c/w Software development kit to communicate with CASTLE® S-Series controller. **ENROLMENT UNIT** CV2588 RS 485 to LAN converter. (UTP Ethernet 10 base T with TCP/IP protocol) USB to COM port converter. USB COM FU Fingerprint enrollment unit

TU-2

**SmartGuard Standard** comes with the entire standard feature which is sufficient for managing CASTLE access control systems and built-in simple daily Time Attendance reporting.

RS 485 to LAN Converter. (Fingerprint Transfer Unit)

**SmartGuard Pro** comes with all the features found in SmartGuard Standard version plus many enhanced features such as record, edit and generate time attendance reports, as well as personalization, manages lift access controller and etc.

SmartGuard Pro-Remote can monitor and control up to a maximum of 256 doors. The controlling can also be done on the controller itself. The users can remotely perform a wide range of supervisory, control and monitoring function centrally for one computer, hence simplifying the jobs of the system administration. All the controllers are linked to the PC where the software resides in. SmartGuard Agent acts as gateway between the SmartGuard Pro Remote and the Remote controller. It communicates with SmartGuard Pro Remote through TCP/IP and CASTLE Controller through comm port (RS485).

**SmartGuard Client-Server** networking capabilities. Software user can perform the entire normal task on the remote PC just like on the same PC. Therefore, software user can remotely monitor, change and even generate reports without having to go to the PC where the controller is attached. In addition, it allows up to 3 software users to access the system at the same time. The networking system is based on the Windows Socket Communication Systems. The software package bundled with database server, a communication server and the client software at a very cost-effective price for implementing such system.



Manufactured by:

#### CASS TECHNOLOGY SDN BHD (338857-X)

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<sup>\*</sup> Specification subject to change without prior notice