

# Castle Alarm Monitoring System (CAMS)

## Features

### User Friendly.

Runs on Windows NT4 and above. (Well-known stable platform for critical Windows Application)  
Controls Access Control, Alarm Monitoring, Guard Tour System and simple Time Attendance System, under the same software.

Manages CASTLE-S/T Series Door Access Controllers,  
CASTLE-SL Series Lift Access Controllers,  
CASTLE-SP Series Car Park Access Controllers and  
CASTLE-FEP-ALM Series Alarm Front End Processor.

### Access Control Capacity

- a. Use only RS485 - 2 wires to connect to each controllers.
- b. Max. 2 buses of controllers.
- c. Can control up to 2 buses of access controllers  
(16 controllers per bus)  
(1 bus = max. 128 doors, 2 bus = max. 256 doors depending on controller model configuration)
- d. 5000 Card Holders.
- e. 2500 Transactions Buffer In First In First Out Basic.
- f. 100 Time Set.
- g. 100 Time Zones.
- h. 100 Door Accessibility.

### Alarm Monitoring Capacity

- a. Use only RS485 - 2 wires to connect to each controller.
- b. Max. 2 buses of Alarm Panels (16 Alarm Panel per bus).
- c. Can control up to 32 CASTLE Alarm Panel under the FEP.
- d. Alarm Panels includes
  - i. CTA 16-16 Supervised input and 4 relay outputs card. (Supervised inputs are able to detect Fault, Alarm and Normal).
  - ii. CTA 32 - 32 Mimic Panel LED Driver card
  - iii. CG 16 - 16 Station Guard Tour Controller.
- e. Max. 512 supervised Inputs.
- f. Max. 128 Relay Outputs (Can be triggered by event program or time zone or manual control)
- g. Max. 100 tour routes can be configured.
- h. 99 Event Programs.
- i. 16 Guard Tour Station (Can be Card Swipe Station / Key Switch Station)

### Software User Interface

- a. User Friendly.
- b. Dynamic Floor Plan Display.
  - i. Each device in the system is represented by icon.
  - ii. Icon will be flashed when the corresponding input device is in alarm.
  - iii. Different icon is used to represent the respective state of the device.
  - iv. When alarm occurs the floor plan systems will switch to the floor plan page containing the device.
  - v. Max. 100 floor plan can be configured.
  - vi. Max. 20 devices per floor plan.
  - vii. Floor plan can be configured right from the same software.
  - viii. Auto floor plan switching featured.
- c. PC Buzzer Sounder when alarm triggers.
- d. Comprehensive Report Generation.
- e. Daily and Monthly Time Attendance Report Generation.
- f. Menu Accessibility Control.
- g. Can place own logo in the report print out.
- h. Password protection system operator.
- i. Photo can be included in the card holder database.
- j. Automatic Transaction Uploading.

Uses RS485 Communication - Industrial Standard Communication Technology.

Client / Server Version available for Multi - Workstation Working Environment and using MS-SQL Database.

Instruction message can be defined.

On-line help.

## Ordering Information



### 1) CTA 16 - 16 Supervised Inputs and 4 Relay Outputs Board

16 Supervised Inputs and 4 Relay Output Board.  
Connect to the FEP (Front End Processor) using only 2 wires (RS485).

LED indicator on board for easy troubleshooting.  
Inputs are supervised for cut and bypassed.

Able to detect Alarm and Normal Conditions in 1 resistor termination mode.

Able to detect Cut, Bypassed, Alarm and Normal Conditions in 2 resistor termination mode.

### Terminating Resistor

- a) 1 resistor mode - 3300 ohm.
- b) 2 resistor mode - 2200 ohm and 3300 ohm.

### Relay Specification:

- a) 10A @ 24VDC.
  - b) Termination N/C, N/O and common.
- Power Consumption: 12VDC @ 800mA.  
C/W

- a) 12V 3A Linear Power Supply.
- b) Housed in Sturdy Metal Casing.
- c) Space for Backup Battery.



**2) CTA 32 - 32 LED Driver / 4 Digital Inputs / 2 Relay Outputs Board**

32 LED Driver and 4 digital inputs and 2 Relay Outputs Board.  
 Connect to the FEP (Front End Processor) using only 2 wires (RS485).  
 Used in the Physical Alarm Mimic Panel for status indication.  
 LED can be connected directly to the terminal.  
 LED #31 and #32 are driven together to the 2 onboard relay for providing higher current application such as Siren Activation.

4 TTL digital inputs are provided for interfacing to input requirement at the Alarm Mimic Panel such as Acknowledgement Keyswitch.  
 Relay Specification:  
 a) 10A @ 24VDC.  
 b) Terminal N/C, N/O and Common.  
 Power Consumption: 12VDC @ 800mA.  
 C/W  
 a) 12V 3A Linear Power Supply.  
 b) Housed in Sturdy Metal Casing.  
 c) Space for Backup Battery.



**3) FEP (Front End Alarm Processor)**

Front End Alarm Processor.  
 1 bus or 2 bus (FEP/1, FEP/2).  
 Connect to CTA16, CTA32 and CG16 using RS485 (only 2 wires).  
 Monitor up to 512 input points and 128 Relay Outputs (Full Configuration).  
 Perform Real-Time Alarm Scanning and Event Processing.  
 99 Event Programs.  
 2500 Transactions Buffer.

On board Battery Backed Memory.  
 On board Battery Backed Real Time Clock.  
 2 x 20 Backlit LCD.  
 Power Consumption: 12VDC @ 1A.  
 C/W  
 a) 12V 3A Linear Power Supply.  
 b) Housed in Sturdy Metal Casing.  
 c) Space for Backup Battery.

**System Configuration**



**Computer Requirements:**

1. Microsoft Windows NT4 (Workstation or Server) or higher.
2. PCAT with
  - a. Pentium II 450 Processor or better.
  - b. 28 MB SDRAM or higher.
  - c. 20 MB free disk space for program file storage.
  - d. At least 500 MB free disk space for data file storage and system temporary file.

- e. 2 free comm ports.
- f. Display system capable of displaying 800 x 600 resolution.
- g. Mouse and Keyboard.
- h. Backup drive (can be floppy drive or Zip Drive)
3. 1 UPS for preventing temporary power interruption.