



Ghost Protocol

Education_Sector_Solutions

"Ghost Protocol helps create a better education environment by offering security to each students' and staffs' door."



BUSINESS BENEFITS



01 Secure academic environment

- Increase situational awareness
- Efficient parking management
- Provide secure access to facilities
- Protecting assets

02 Offering security to each student

- Track student incidents.
- Respond to student incidents on time.
- Analyze students' behavior.
- Deliver security to students in each step.



INDUSTRY DEMAND



- 01 Centralized management.
- 02 Video surveillance system with high reliability.
- 03 Ability to respond quickly to active alarms.
- 04 Easily navigate between cameras spread across multiple buildings.
- 05 Ability to integrate add-on products and third-party applications such as video analytics, face recognition, access control or license plate recognition or Assets tracking.
- 06 Ability to always access video recordings of critical situations.
- 07 Multiple levels of user access rights and audit trails.
- 08 Ability to track students' physical access and staff to all campus facilities.
- 09 Ability to track IT assets and labs assets movements across the campus.
- 10 Ability to manage employee and staff parking access.
- 11 Integrating security devices into single platform for simplified management and monitoring.

OUR SOLUTION AND FEATURES



01

Video Surveillance

Video surveillance and life footage for all gates, streets, recreations areas, halls, entrances, corridors, labs and other critical areas inside university or schools' facilities.
a. Indoor and outdoor cameras, PTZ cameras, specialty cameras, NVRs and VMS



02

Access Control System

Access control and management to control access to labs, lecture halls, building entrances.
a. Biometric readers, card and pin reader, attendance machine, magnetic locks, push button, break glass, door sensors, controllers and software.



03

Video Analytics

Software based video analytics to analyze and detect suspicious behaviors.
a. Video management System, Video Analytics, facial recognition, license plate recognition.



04

RFID Asset Tracking

Tracking assets using third party RFID tags and readers
a. RFID readers (passive and active), different type of tags, handheld readers, warehouse management and asset management software.



05

Fleet Management

Fleet Management
a. Mobile NVR, mobile cameras, GPS tracking, OBD devices.



06

Infrastructure Solution

Infrastructure solution
a. UTP cables with all accessories, Fiber cabling, network switches, rack and blade servers, datacenter preparation (passive and active)

APPLIED SCENARIOS

◆ CCTV



- 01 Live and efficient monitoring for all cameras by defining motion setting and zone setting and area of interest to receive notifications of motion within specific time.
- 02 Tracking people in all cameras using neighboring features. User can track any person he sees in a live view or archive by clicking neighbor cameras so it will automatically open the next cameras in which this person of interest appears on it without the need to select from a list or from a map.
- 03 Select a camera to switch to archive view within the same live window, while other cameras on the same interface remain in the live view.

- 04 Share a specific view between the operator and the security manager or the dean for any event so he can jointly see the same interface you are seeing.



- 05 Tag a specific user with an event so he can receive event details and modify and assign tasks to other users.

- 06 Possibly lock a portion of the archive in case any investigation is happening on an incident so that no one can overwrite or delete this archive until the investigation finish. This portion can be tagged also for easy search later.
- 07 Identify a present preview for all cameras and divide them per campus, per faculty, per building, per floor, per department so that it will facilitate navigating between preset preview group.
- 08 Use GIS map to navigate between campuses and building to reach your building maps and floor level.



◆ VIDEO ANALYTICS



- 01 Counting people in and out to calculate who is left behind in any building after duty hours.
- 02 Dispatch a security guard in case of any panic disorder or students fighting.
- 03 Manage access to parking using LPR or students and staff by

- 04 Detect any left object as a suspicious object so that security guard can do the normal testing to protect students and staff life against possible attack.



- 05 Send a medical help in case a student slip and fall inside any building and no one was there to help.

APPLIED SCENARIOS

- 06 Monitor fixed assets by getting alarm in case this asset is moved from the scene.
- 07 Detect a fire incident in the outdoor areas where fire alarm sensors are not possible to install. Using smoke and fire analytics, we can protect students' life.
- 08 Detection of wanted person within a campus facility.



◆ ACCESS CONTROL



- 01 Control opening and closing all doors, barriers and gates from the map.
- 02 Schedule an unlock time for all labs doors to be open during working hours and to be locked automatically after working hours.
- 03 Track student or staff access to all facilities by generating report per user ID for an interval of time.

- 04 Link the video archive with the access control transaction so that operator can see the video recording during the time of opening any door.



- 05 Lock a door when a specific asset moves outside a geofence area or outside a specific building.

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- 07 Give and distribute credentials to students to access their labs based on their registered courses and for a period of time.
- 08 Use card access or fingerprint transaction to consider attendance to lecture or class. Calculate the total attendance time at the end of each course to consider student eligibility for exam.



◆ RFID AND ASSET TRACKING

- 01 Track important assets within campus facility and know when and who moved them.



- 02 Specify a geofence for important assets so that it will not go outside specific lab, floor or building by integrating RFID with access control.

APPLIED SCENARIOS

- 03** Identify the location of your asset on the map.



- 04** Track student or staff using RFID cards and long-range readers.

◆ FLEET

- 01** Track your fleet of buses and their locations.
- 02** Get a live streaming from the bus that show the inner and outer side of the bus while moving.



- 03** Receive bus behavior from fuel level, speed and other signals.



- 04** Monitor the driver behavior (seat belt, speed, brakes, idle, etc...)

- 05** Offload the recorded video from the mobile NVR of the bus to the main storage when the bus is back to home station.
- 06** Include an RFID reader on the bus to track student presence inside or outside the bus.



◆ LOW CURRENT SYSTEM:



- 01** Fire Alarm System



- 02** Public Address System



- 03** Digital Signage



- 04** Audio-Video System for meeting room and class room.

ADDITIONAL SERVICES



01

Service Level Agreement

Ghost protocol offer many levels of support ranging from basic to Elite VIP with different response time. Each educational facility can sign an SLA based on the level of importance and business operation needs.

02

Manpower (operation and Maintenance)

Ghost protocol can take care of the IT infrastructure operation and maintenance by providing certified trained engineers to be resident at client site to manage the daily IT operation and support the customer in their mission critical application.

03

Manpower (security guards)

Ghost protocol can estimate and provide security guards with different levels to secure campus facilities. The team provided is trained and equipped with latest security technology equipment to maintain high level of security.



04

Managed Services

Managed services are offered to educational facilities which need high availability operation with effective cost. Client can sign an installment contract to obtain XaaS (X as a service) without worrying about paying high capex.

05

Datacenter solution

Ghost protocol can do datacenter preparation which include but not limited to: raised floor, false ceiling, HVAC system, UPS system, electric work, cooling container, generator, rack cabinets with all accessories, environment monitoring system.

06

Cloud solution

Educational institution can host their application on the cloud and request to be managed by ghost protocol. Also we offer software solution special for education on the cloud and hosted in a service provider from your choice.



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