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# STRUCTURED

## SECURITY SYSTEMS



## Your Canadian Security Specialists



**Eddie D'Orazio**

Commercial Sales  
Structured Security Systems

Toll Free: 1-888-693-1118

Tel: 905-640-0069

Fax: 905-576-2836

Mobile: 905-424-0050

[eddie.dorazio@structuredss.com](mailto:eddie.dorazio@structuredss.com)

## To our prospective clients, partners, associates and team members

Structured Security Systems is an established Canadian company specializing in life safety, design, installation and operation of a wide range of security products and services.

Serving the Province of Ontario for over 14 years, Structured Security Systems has proven to be a leader in the security installation and servicing industry. With a full range of products including intrusion alarm, alarm communications, fire alarm, home automation, video surveillance transmission and access control, we bring a singular dedication to the full spectrum of commercial and residential security needs.

Whether protecting valuable property or providing monitored medical pendants, we are the smart choose for your security needs.

Thank-you for giving Structured Security Systems the opportunity to quote you on your life safety and security needs. We hope that we can meet with you for further discussions and work with you and your staff to better secure your future.

Eddie D’Orazio  
President

[eddie.dorazio@structuredss.com](mailto:eddie.dorazio@structuredss.com)



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## Alarm Monitoring

To be able to notify police or security personnel about the alarm in your premises you will need to connect your alarm system to a central monitoring station. Structured Security Systems provides monitoring service through a local ULC approved Monitoring Station. By using reliable and professional technology a security system will give you 24-hour protection. ULC stands for the Underwriters Laboratories of Canada, assures the dependable service of the monitoring station. ULC standards monitor the regulations of the monitoring station operation, equipment requirements, communication and emergency procedures and much more.

### *How does the Monitoring Station work?*

The signal from your alarm system is transmitted to the central monitoring station. Once the signal is received an operator will dispatch authorities (Police or Guard Service) and try to reach you to confirm the actual alarm. If you are not available they try to contact other people listed on your contact list. They will also notify the alarm company in case of any irregularity.

Depending on the protocol of the communication and the way the signal is delivered transmission of the signal could take as little as a few seconds. Another factor of the transmission timing is how old the system is. If the system was installed 7-10 years ago this could even take longer. Like computer technology, alarm systems change very quickly. To keep up with technology you should be upgrading your system.

There are different ways how the alarm system can send the signal to the central monitoring station depending on the insurance company requirements, budget and the ability to provide the service.

The most common connection between the alarm system and the central monitoring station is the telephone line. This is dial up procedure. Alarm panel must dial the special number to reach the central monitoring station and send the signal. Because it uses dial up option the communication depends on the ability of the phone lines.

Another way to communicate with the Monitoring Station is to use the cellular network. This could be used in the conjunction with the telephone dial-up service as a back-up or as a standing alone unit.

Last five years show that wireless communication is growing strong. Some new technologies appeared on the market which cut the cost of the equipment and speed up the communication with the central monitoring station. One of them is Alarm Net, others are Up Link and Sky route. There are some small differences among these systems but the main principle is simple. They use a digital channel of the analog cellular network. The old analog cellular network uses a digital channel to perform automation tasks such as turning your ringer on when the call is coming to



your phone. Analog channel of the cellular phone is used to carry your conversation with an individual. Digital channel is so powerful that it keeps working even if your analog channel stops (eg. lost the signal). Since the cellular network well covers most of the urban centers and the main routes, building of the additional transmitters has been unnecessary. This was an ideal situation to use this network to transmit the signal from the alarm system to the central monitoring station. The result is the single unit attached to your alarm system that uses the digital channel of the cellular network to send all alarm signals to the central monitoring station. The cost of the unit starts from \$250.00 and up and there is a low monthly fee (in comparison to cellular usage fees). There is no annual license fee (\$25.00), no telephone number required and no busy signals any more on the cellular network. Some of the additional features of this communication is the supervision of the transmitting equipment at your house (additional fee required).

One of the most expensive networks is D-VACS. It is provided by the local telephone company and it is limited depending in which area you live in and the distance from the central monitoring station. This type of the network is in the constant communication with the central monitoring station. Once the loop is broken it triggers an alarm at the central monitoring station. The communication protocol is very fast and very efficient. The cost of the equipment and maintenance is high and therefore most of the times it is used to protect high value assets (banks, computer stores, electronic stores, etc.). Some of the insurance companies require the installation of this type of the communication. Monthly fee starts from \$50.00 and could go as higher as \$100.00 + HST. Bell has been raising rates on this type of service on an annual basis of up to 7% over the last 5 years.

## Alarm Monitoring Pricing

Structured Security Systems provides 24-7, U.L.C. approved monitoring. With a variety of different packages, we provide a smart alternative and a more personalized service to our customers. Make the smart choice for your commercial or residential monitoring needs by choosing Structured Security Systems.



## Package 1

Basic Monitoring: 24-7 U.L.C. Approved Monitoring and Weekly Testing \$22.50 per month plus HST. Structured Security Systems will customize a call list to meet our customers need, securing that a key holder is notified of alarms and that the appropriate actions are taken to ensure your property is protected and secure at all times.

## Package 2

Guard Response: 24-7 Guard Response Service for an additional \$2.50 per month plus HST. This extremely cost effective service ensures that your staff or families are not exposed to potential threats when entering your premises during out of hour times or when alarm activation has occurred. A bonded security firm will respond to all alarm calls in a marked vehicle (guard will be in uniform).

## Package 3

Full Maintenance Package: Included if you take package one and two, Structured Security Systems can provide you with a parts and labour warranty on all installed security components for the first five years of installation / service.

## Package 4

Opening / Closing Reports: For an additional \$3.00 per month plus HST, Structured Security Systems can provide our commercial and retail clientele with opening / closing reports detailing all alarm activities occurring on their premises. Once a month we will provide you with the information via mail, e-mail or fax. Please note that depending on the business location, long distance charges may apply for this service.

## Package 5

E-Alerts: For an additional \$3.00 per month plus HST, Structured Security Systems has created a program designed for commercial customers who need to know what is occurring at all times. The central station will send all alarm activities to a designated email address so that you can be well informed of every activity occurring at your location as it occurs.

Customers can choose to be invoiced, annually, semi-annually, quarterly or monthly on direct debit. Multiple account discounts are available. Speak to your account representative for further information.





## Alarm Systems Products



## Remote Key Fobs

Remote Key Fobs are used with the wireless or hybrid systems. There are two types of the Key Fobs. First is the standard one with the maximum of 4 buttons. It sends the commands to the main controller. The second one, in addition to 4 buttons and the ability of sending commands to the main controller, also has the ability of receiving the status of the alarm system. It is called Bi-Directional Key Fob (from two-way communication).



## Main Controller

There are a few types of the Main Controllers. One is hardwire only, another is wireless only, and the third one that is most commonly used at the present is a hybrid (hardwire-wireless combination). The number of the zones depends on the scale of the installation. It could start as low as 6 zones and go up to 100 and over. To give you and the Monitoring Station a maximum information about the alarm each zone has its own device (eg. door contact, window contact, motion detector, smoke detector, glass brake detector, etc). For example, house with 3 doors, 4 windows and 1 motion detector will use 8 zone Main Control panel. You could add more zones if you need by using hardwire or wireless Zone Expander.







## Wireless systems

Almost any hard wire device with few exceptions can be substituted by the wireless device that uses the newest very reliable technology. Wireless system is the invisible network created among the Main Controller and wireless devices. Main Controller supervises the devices by looking for malfunction, low battery, etc. and creates the trouble report for the Monitoring Station. In the case of the alarm one of the devices triggers the Main Controller and sends the report to the Monitoring Station. Success of the wireless installation depends on the extensive experience of the installing company, the quality of the components, adequate testing, and the maintenance. The main advantage of the wireless system is the flexibility of the installation and the possible relocation to the new place.



## Magnetic Contacts

Door or Window Contacts are used to protect the perimeter of the building. There are different models and sizes of the magnetic contacts depending on the type and size of doors and windows. To insure the adequate protection and to prevent false alarms magnetic switches should be installed professionally.



## Motion Detectors

Motion Detectors are used to protect the interior of the building by detecting any movements.

There are different types of the Motion Detectors. The standard Passive Infrared Motion Detector is most commonly used in the installations.

The special type of the Motion Detector, the Dual-tech, combines two Motion Detectors in one: the Passive Infrared and the Microwave. Because of the environment of the location Dual-tech motion detectors are used mostly in the commercial installations. Another type of the Motion Detector is the Pet Prove Motion Detector. Special technology built in this detector gives the advantage of using it in the house with the small pets.



## Glass Break Detectors

Glass Break Detectors are designed to detect breakage of the window or door glass. They are sophisticated devices with built-in microprocessor to monitor and verify the sound coming from the broken window or door glass and not from something else.



## Smoke Detectors

Smoke Detectors are design to detect the smoke in the area.



## Heat Detectors

Heat Detectors are design to detect the source of the heat.



## Carbon Monoxide Detectors

Carbon Monoxide Detectors are very important in saving life.

## Telephone Interface

Telephone interface is used for the proper connection to the telephone line.



## Sirens

Sirens are used to make a big noise inside the building in case of the alarm.



## Back-up Power Supply

Back-up Power Supply (battery) keeps the system operating in case of the power outages. System constantly maintains the Back-up Power.

## Cellular Back-up Unit

An addition to the basic components may be the Cellular Back-up or Long Range Radio for back-up communication with the Monitoring Station.

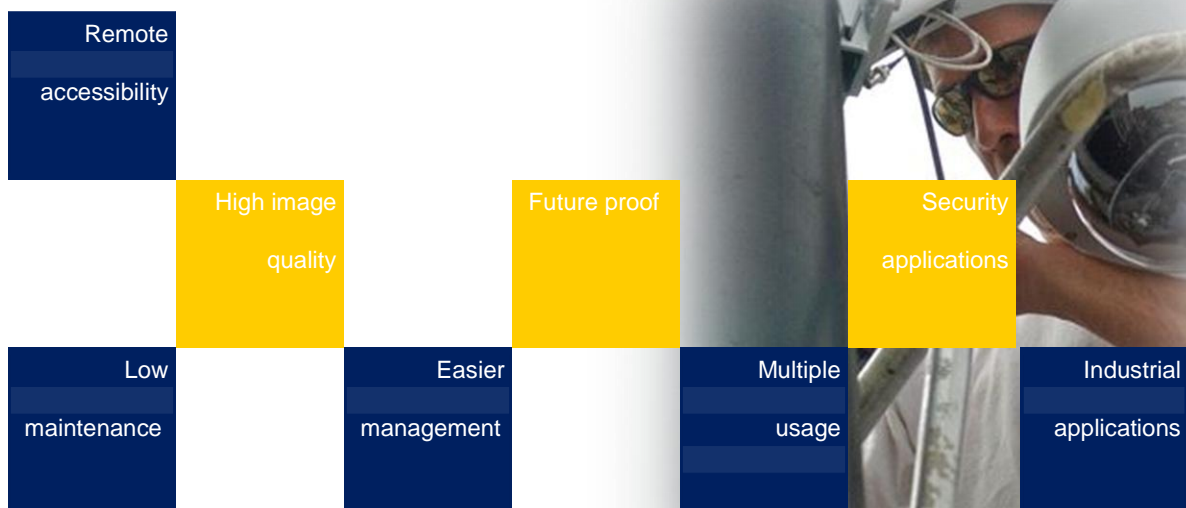


The partition of the alarm system is a multiply alarm system that uses a single Main Controller and Remote Keypads. It is very convenient in the commercial installations (office partition #1, warehouse partition #2) and the residential installations (basement suite partition #1, upper floor suite partition #2). It could start as a simple two-partition system and it could be upgraded to the more partitions depending on situation.

In addition to the primary function of the alarm system (protection) it could be also used to control various functions at the house. For example turning lights on and off outside or inside the house, operating the garage door opener, maintaining climate control inside the house and so forth. These additional functions can be added to the system using add on interfaces.

## DVR / CCTV Systems

Why choose DVR-Surveillance?	
Remote accessibility	The images and vide streams are easily made available from remote locations, saving time and traveling costs. The images can automatically be stored at remote locations for convenience and/or security.
High image quality	Using digital storage (hard disks) means that image quality will be high and always stay high. No degradation of image quality as when using video tapes in analog systems.
Low maintenance	Eliminates tape handling. Computer hard disks are being used for storage.
Easier management	The playback and search capabilities offered are superior to those of an analog system.
Future proof	Using open standard protocols and networks for communication means that equipment from several manufacturers can be integrated in the same system.
Multiple usage	A camera that is being used as a surveillance camera in a reception area at night, can during the day be part of an automated reception system.



## Why choose a DVR system?

### Crime prevention

In urban areas troubled by the problems of rising crime, installing the necessary infrastructure is expensive and time consuming. DVR-Surveillance meets the requirements of a high-quality and cost effective system and has proved to be a successful way of reducing crime and violence in troubled areas.



### Retail

For cash register staff constantly exposed to the threat of armed robbery, DVR-Surveillance solutions provide additional security compared to traditional analog systems. When transmitting live video over networks and storing the images on a local or remote server rather than on a tape cassette, the visual evidence is not within reach of potential criminals. Owners and managers can also follow the business from any remote location.



### Transportation

To meet the traffic needs of today's traveling public, DVR-Surveillance products can be integrated with existing surveillance systems to enhance security for passengers at railway stations, airports and high ways. Monitoring centrals will have easy access to images of high ways and toll booths.



### Financial institutions

As a means of protection against cash card fraud and robbery, financial institutes are installing DVR-Surveillance solutions to monitor ATM transactions and other sensitive areas. Separate image files of each specific action can be stored onto a central database for potential future Investigation.



## Office surveillance

Companies integrate DVR-Surveillance systems with their existing office infrastructure, enabling easy access to images for authorized staff. At night, network bandwidth is used for monitoring of the facility. In the event of an unauthorized entry, the motion detection initiates recording of the intruder and sends an immediate notification to the security team. Images can be used for other applications, i.e. integration to facility access system and monitoring of technical equipment.



## Educational institutions

DVR-Surveillance solutions help monitor school buildings, class rooms and playgrounds, making educational institutions a safer place to visit.



## Monitoring of technical equipment

In server rooms and network closets, remote inspection via a DVR-Surveillance system helps ensure high-quality service at all hours. Motion detection protects against unauthorized entries. Event-triggered alarm functions guarantee that the personnel can take immediate action on detected environmental changes that could damage the equipment.



## Manufacturing industry

In manufacturing plants and warehouse facilities, DVR-Surveillance systems give staff visual access to critical points along the production line. Potential dangerous incidents can be discovered and avoided at an early stage. The prevention of costly production jams saves companies substantial amounts of money.





## CCTV Equipment

Structured Security Systems provides you with the highest grade of equipment in accordance to your specific budget to ensure a long trouble free system life as well as a user friendly interface. Due to the complexity of equipment and the ever changing market, Structured Security Systems is always trying to better educate its staff to better serve you the customer.

We decided to not display older technology as most people are aware of the old analog systems. So we are taking this opportunity to show you the new digital camera systems to include a wide range of accessories that can be used inconjunction with the new units. The beauty of going digital is the fact that you can still use your existing analog coaxial cable to run the new technology thus saving you on labour costs.

### SSSHD-M4388

Outdoor vandal dome camera for HS-SDI 1080P full resolution 2.1 megapixels, auto iris 2.8 to 12mm lens with an IR distance of 55ft. Can be operated under both 12VDC or 24VAC.



### SSSHD-M0286

Outdoor vandal dome camera for HS-SDI 1080P full resolution 2.1 megapixels, auto iris 2.8 to 12mm lens with an IR distance of 50ft. Operated under 12VDC only.



### SSSHD-M4325W

Indoor vandal dome camera for HS-SDI 1080P full resolution 2.1 megapixels, auto iris 2.8 to 12mm lens with an IR distance of 55ft. Operated under 12VDC only.



### SSSHD-M0276

Indoor vandal dome camera for HS-SDI 1080P full resolution 2.1 megapixels, auto iris 2.8 to 12mm lens with 18 Leds and an IR distance of 50ft. Operated under 12VDC only.



### SSSHD-M0270

Indoor vandal dome camera for HS-SDI 1080P full resolution 2.1 megapixels, auto iris 3.6mm lens with IR distance of 50ft. Operated under 12VDC only.



**SSSHD-M4386**

Outdoor bullet camera for HS-SDI 1080P full resolution 2.1 megapixels, auto iris 3.5mm to 16mm lens with IR distance of 90ft. Operated under 12VDC and 24VAC.

**SSSHD-M4386PTZ**

2.0 megapixel resolution PTZ, 360 degree endless pan rotation 500 degree / sec pan speed, X20 optical zoom, weather proof – IP 67 HD-SDI and composite output, RS-485 port for joystick controller on screen display, ICR (IR cut filter removable), realtime clock and built in heater and blower. Operated under 12VDC and 24VAC.

**SSSHD DVR Equipment****SSSHD-HD1404**

4 channel HD-SDI at 1080P resolution, recording 4 channels at a total frame rate of 20FPS. Works over coaxial cable only.

**SSSHD-HD413**

4 channel HD-SDI at 1080P resolution, recording 4 channels at a total frame rate of 120FPS. Works over coaxial cable only.

**SSSHD-HDT08H4174**

8 channel hybrid : 4 inputs are HD-SDI at 1080P resolution and 4 inputs are traditional coaxial cameras. Works over coaxial cable only.

**SSSHD-HD813**

8 channel HD-SDI at 1080P resolution, recording 8 channels at a total frame rate of 240FPS. Works over coaxial cable only.



**SSSHD-HDT16H4174**

2 channel HD-SDI at 1080P resolution and 14 traditional camera inputs. Excellent choice for a replacement DVR that you may require only two PTZ inputs that work on the high resolution recording of HD or two regular HD cameras. You can retain whatever cameras you may currently have on your system and still benefit from the HD picture quality.

**SSSHD-HDV7116**

16 channel HD-SDI at 1080P resolution, recording at a total frame rate of 120FPS. Works over coaxial cable only.

**HD-SDI Accessories****SDI to HDMI Converter**

Supports 1080P full resolution, supports HDMI 4.0, 12VDC, 6W. Easy installation. Excellent for someone who wants the picture sent to a spot monitor in HDMI format.

**SDI Repeater**

Supports 1080P full resolution, supports HDMI 4.0, 12VDC, 6W. Easy installation. Extend distance up to 300ft. Excellent for applications that require longer distance of travel.



As a reference when converting traditional analog systems to HD you may encounter limitations and loss of video due to poor coaxial cable or cuts / patch's that may have been done on your existing coaxial cabling. When converting to HD it is important to understand that the cabling cannot be compromised. If you have had a repair done to your cabling you may need an SDI repeater installed where the joining of cable was made. This will increase the video feed thus correcting the cut in the cable.

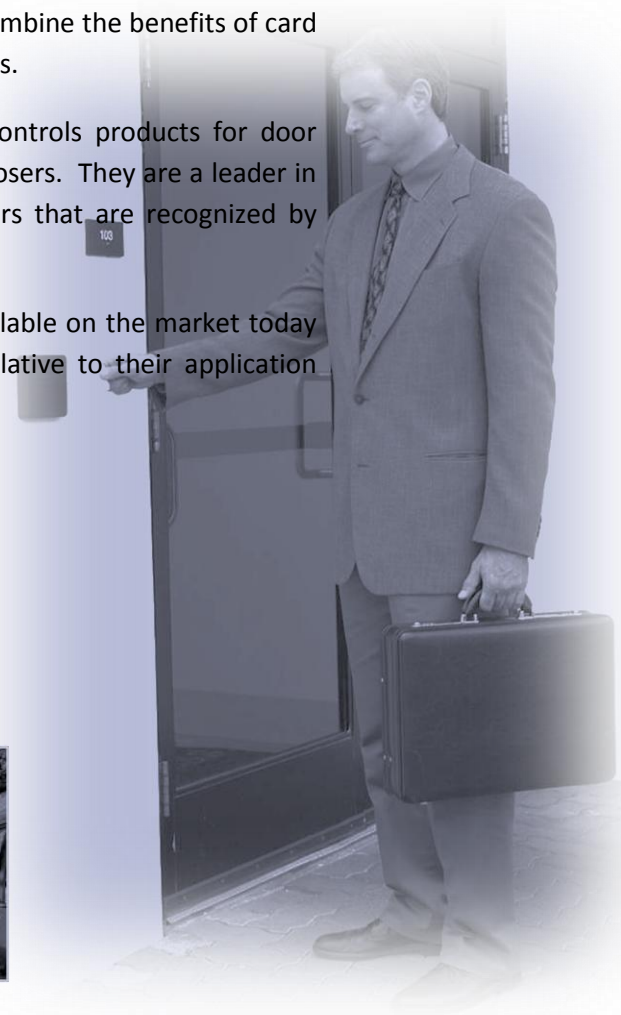
## Card Access / Restricted Accessories

Structured Security Systems has designed and installed many card access systems in environments where controlled access is essential. From industrial applications to emergency exiting systems, we have the knowledge to carry forward any type of project in conjunction to city and individual jurisdiction codes. Partnered with Redi Fire Prevention, Structured Security Systems makes sure that all installations meet fire regulations assuring customers that the installation will pass city and fire inspections.

Both Keyscan and Kantech have incorporated interface modules to work with DSC products thus giving us the ability to combine the benefits of card access along with our customer's security systems.

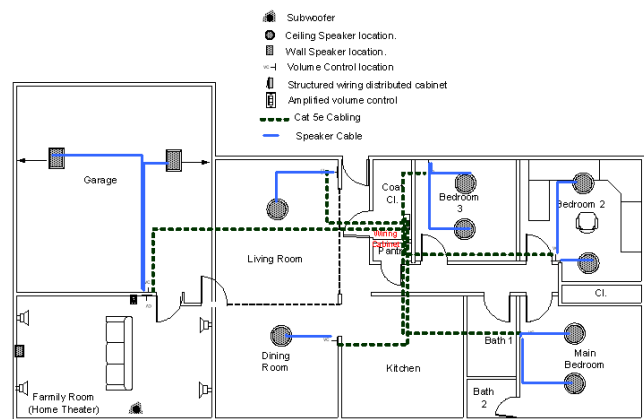
Structured Security Systems uses Rutherford Controls products for door locking mechanisms from door strikes to door closers. They are a leader in the security systems and provide reliable closers that are recognized by everyone in the security industry.

Due to the amount of product and systems available on the market today we will provide customers with information relative to their application upon request.



## Room to Room Audio Systems

Structured Security Systems has designed and installed many room to room audio systems in residential and commercial applications. Always striving to research new innovations in the room to room audio market, we strive to be a leader in the private residential and commercial market.



We will custom design a room to room audio system to include home theatre for your custom built home working along with your architects and interior designers to make sure you have an esthetically pleasing system with the quality sound we all adore.

If you are a commercial client who also wants to have soothing music playing in the background while working at the office we too can design a system to meet your audio needs. To further meet your expectations we can link your audio system to your telephone system providing customers on hold with music or a pre-recorded advertisement commercial so that your customers can be well informed of new products and services.

Let us be part of making your dream audio system a reality today.



**NÜVÖ®**  
Whole Home Audio

**AIPHONE**

**TOA**



**CHANNELPLUS** **Open House**  
Now a Part of Linear's  
Audio, Video & Data Solutions

