



## **COLDWIRE TECHNOLOGIES PRIVATE LIMITED**

### Company Profile & Product Catalogue

Coldwire is a System Integration company providing high end safety, security and automation solutions. The company provides professional services in multiple technology domains like Electronic Security, SMATV, CCTV, Fire Alarm, Parking Management, Nurse Call System, Airport Systems, Tunnel Evacuation Systems, Digital Signage, Flight Information Display Systems, RFID Solutions, Integrated Security solutions and customized solutions .

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## INTRODUCTION

Coldwire Technologies is a Private Limited company established in early 2010 and primarily providing high end networks, display, security and automation solutions. The company provides professional services in multiple domains (Low voltage and Extra low voltage segments).

Coldwire was founded by a team of experienced engineers. As an application development and integrated solution company, we remain agile and keep pace with the development of new technologies. Being a total solution developer, we contribute to every project and ensure all our clients get the benefit of our cumulative knowledge and experience.

- We have received our ISO9001.
- We are member of FSAI (Fire and Security Association of India).

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## ABOUT US

**Coldwire Technologies Private Limited** has established itself as one of the leading **developer, supplier, distributor and system integrator** of **Electronic security, video surveillance, Multi Satellite Digital Distribution, RFID Based Technologies and many more products** in short span. Over the years we have diversified our scope of services and established strong and long-term associations with some of the leading electronics companies across the globe. Incorporated in the year 2010, we boast of a strong industrial competence along with specialized high performance technology and state-of-the-art equipment required towards all spheres of life. We take pride in our products and services, working towards a mission of 'securing your world'.

With experience, R&D and technical know-how, we are fully equipped and capable of providing world-class solutions, customized according to the needs of our clients.

We are proud to state that a team of close to 50 hardworking professionals work diligently towards the cause of TQM - Total Quality Management. Our employees work with a motto of 'customer first', giving utmost importance to providing quality services with excellent back-end support.

Additionally, we have associates from industry and OEMs with full commitment towards highest quality solutions, support and competitive pricing. We have established ourselves as a strong player in the industry, serving the needs of our clients across India.

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## MISSION

To be the leading provider of System Integration solutions, services and solutions in India and establishing ourselves as a premier brand in the global market by continuous commitment towards excellence in quality, high performance, dedicated teamwork and customer satisfaction, allowing us to achieve sustainable and profitable growth.

## OUR VALUES

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- **Dedication:** We are continuously committed towards serving our customers. All our employees have full allegiance towards our motto 'customer comes first'
- **Performance:** We believe in continuously raising the bar of performance, allowing us to meet and exceed client expectations every time.
- **Integrity:** We walk the talk, delivering what we promise. We stand by our commitments providing our customers utmost satisfaction.
- **Teamwork:** We believe in working together, staying together. We encourage open and effective communication and interaction. Our organizational culture patronizes unfettered and integrated teamwork among different departments allowing seamless, fruitful operations.
- **Transparency:** We work with lucid thoughts and actions, ensuring equality among our employees, customers and suppliers.
- **Accountability:** We take responsibilities for our decisions and actions. We allow our empowered employees to honor their commitments and do what is necessary to gratify our clients and meet the organizational goals and objectives.

## WHAT WE DO

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We Integrate and try to deliver what our clients are looking for. The problems that seem very complex to the end user can easily be envisioned by our technical experts.

## OUR EXPERTISE

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1. CCTV Surveillance Solutions, Fire Alarm Systems, PA and ELV systems
2. Multi Satellite Digital Distribution (DTH s + Cable)
3. Structured Cabling, Data and Voice Ethernet Networks (Data and Voice Service)
4. Gate Security/ Automation
5. Parking management and Parking Guidance system
6. RFID Solution

7. Indoor and Outdoor LED Digital Signage's/ Video Walls
8. Under Vehicle Scanners Systems
9. Nurse Call Systems/ Que Management Systems
10. Customised system integration solutions/systems
11. SMATV Systems/ Digital Signage.

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## SOULTIONS BRIEF

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### CCTV SURVEILLANCE SOLUTION

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Our expert team of professionals with the support of our partners works together in designing and implementation of a close circuit television system customized to customer requirements. We believe in development of a system involving least number of manpower and yet easy to operate with basic training of the system. Our Solutions have a powerful deterrence capability and provide extensive data of recorded images for post event analysis.



Our product range in this domain constitutes of a vast variety of different types of cameras and Digital Video Recording capabilities depending on customer requirements, ranging from low budget to high end installations.

#### **Types of Cameras**

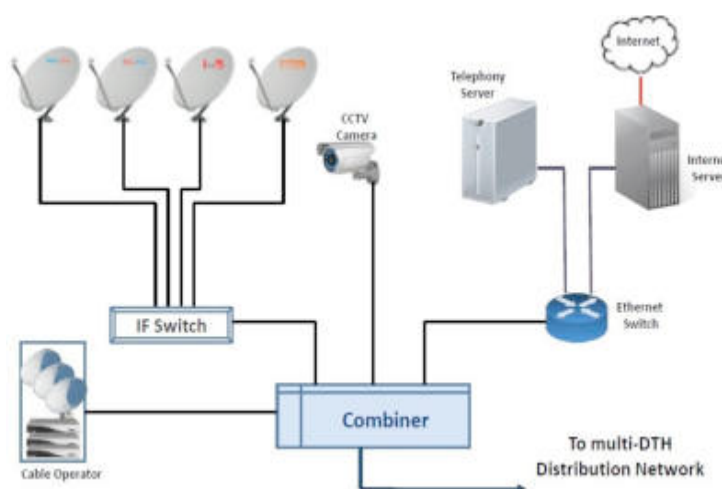
- Dome Camera
- IR Dome Camera
- CCD Camera
- IP Camera
- IR Camera
- Speed Dome Camer



## MULTI SATELLITE DIGITAL DISTRIBUTION

Television Entertainment is purely an individual's personal choice. Your customers have to live without choice because of the current technical limitations. DTH subscription whichever it may be involves installation of a satellite dish on the balcony or the roof-top. Increasing subscribers causes a clutter of dishes in your property thereby rendering an unpleasant look to your property.

Some DTH providers do offer single antenna solutions or Satellite Master Antenna Television (SMATV) solutions exclusively for their service. Some of them even go to the extent of offering Integrated Reception Systems (IRS) which integrates various other services like broadband internet and CCTV. Here the drawback is that these companies own the network and the residents are forced to subscribe to that particular services offered by the company. This restricts the resident's choice of TV viewing.



**Multi Satellite Digital Distribution (MSDD)** is the only network solution in India that gives choice of Satellite TV viewing and much more. Coldwire's MSDD makes it easy for the builders to offer the residents their choice of DTH service. The residents won't have to install individual dishes on their balconies or on the roof-top. This helps in maintaining the appearance of the area and preserving the aesthetic look of the property.



Moreover the MSDD solution is cost-effective, expandable and transparent to all value added satellite TV services. Additionally the MSDD network can accommodate CCTV integration for viewing the footage on the TV screen itself, Digital Cable TV integration and High-speed Broadband Internet integration.

### Features of MSDD

- Delivers multiple satellite TV services via single cable to the room.
- Completely concealed cabling.
- Guaranteed high quality signal at each television point
- Significant cost savings on installation & upgrades.

- Larger dish ensures minimal rain fade.
- Supports all satellite pay and free-to-air DTH services in India.
- Easy integration for CCTV (Closed Circuit Television) Cameras.
- Integration for High Speed Internet.
- Enables connectivity for local digital cable.
- Expandable for unlimited number of satellite receivers.
- Fully transparent for all value added satellite services.
- DD Direct + channels can be received without subscription (Free view).
- Plug and Play service.

#### DATA AND VOICE ETHERNET NETWORKS (DATA AND VOICE SERVICE)

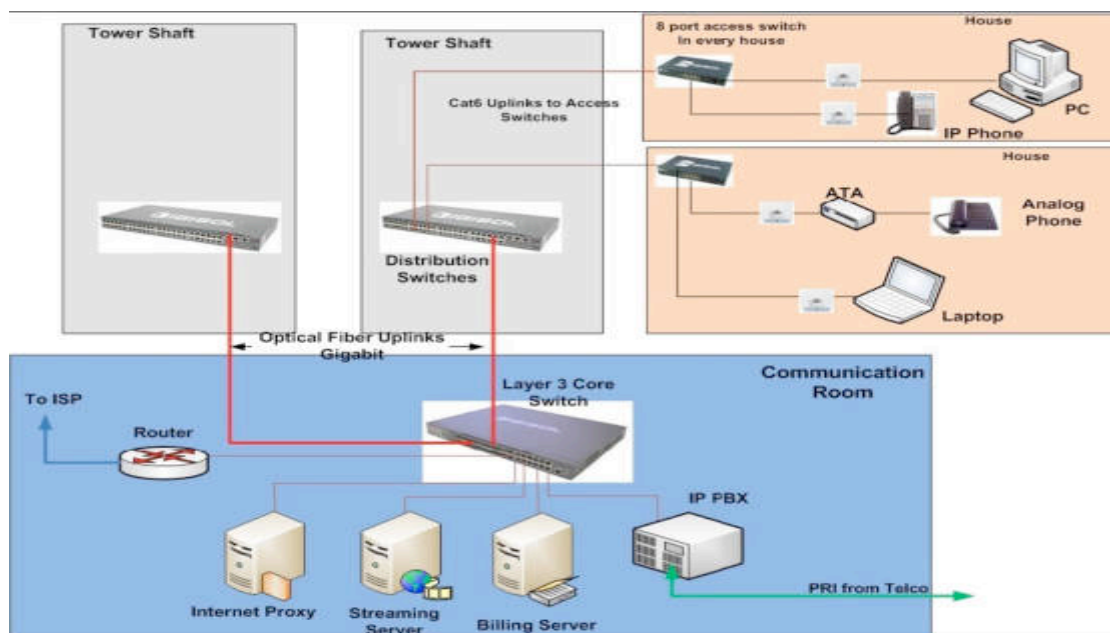
Today global companies are harnessing the power of Internet to connect across various stake holders - employees, customers and partners - spanning multiple locations across the globe. Given the scale, an enterprise class data network has to be heterogeneous, robust and scalable.

Setting up a network to carry Voice over IP (VOIP) traffic along with the data packets requires an understanding of what features are needed in the routers and switches of the network. It is also required to understand how much data bandwidth is required to successfully transport VOIP voice conversations, and what tradeoffs are possible to get by with less bandwidth than would normally be necessary in turn saving costs.

At Coldwire we believe in providing our customers with a best possible Ethernet solution that caters for their requirements and is 100% reliable. With our extensive knowledge and experience in the field of networking and design we develop custom made data and voice networks suitable for both commercial and residential complexes.

Our objective is to design a simple architecture that is highly cost effective, reliable and low long term maintenance. Although, technology in the field of data and voice networks has advanced many folds globally, but still a simple Ethernet network is far more stable and cost effective. Also, it encapsulates all the features any alternate solution can provide.

A simple Data & Voice network with all the major components is as shown below:



Some of the features of Data and Voice Ethernet network are:

- High Speed Internet: Up to 100 Mbps (uplink and downlink) at each data point
- Voice Over Internet Protocol (VOIP)
- Easy Integration with Analog Telephone
- IP Television
- Easy integration of other services like CCTV, Access Control & Security Systems on the same network.

### FIBER TO THE HOME (FTTH)

Fiber-to-the-home networks are designed to deliver broadband services to end-users over fiber. The network consists of a passive fiber infrastructure and active equipment to enable distribution of the communication services.

With our knowledge of Fiber Optics and Networking, we have developed skills through advanced trainings of our technical staff from some of the leading OEM's like Huawei and Alcatel to gain expertise in designing and implementing a reliable and cost effective FTTH infrastructure.

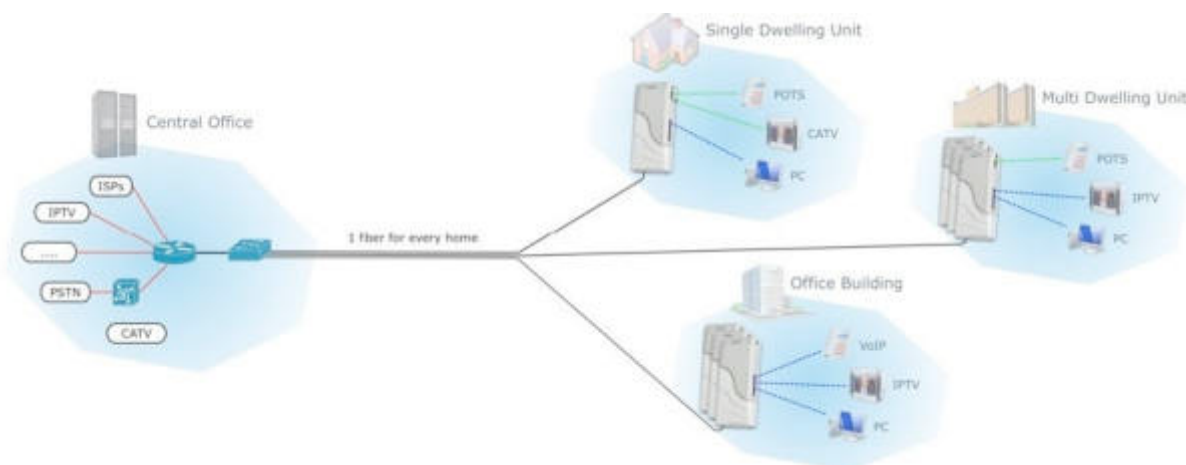
Coldwire's FTTH network is based on a point-to-point (PtP) architecture. This is important for three reasons:

- Point-to-Point networks are future proof. In a PtP network each user is connected by a dedicated fiber to the central switch, offering ultimate flexibility.



Users can be upgraded and connected individually; the network is highly scalable and matches with future traffic patterns which are based on peer-to-peer communications.

- The PtP architecture maps one-to-one onto Ethernet/IP packet switched networks. Ethernet/IP is quickly becoming the default standard for interactive services; even optical transport networks are moving from circuit switched (SONET/SDH) links towards Ethernet. A fiber-to-the-home network should not only be compatible with Ethernet, it should be Ethernet itself.
- PtP offers the most cost efficient solution. Based on low-cost transceiver technology, a PtP network provides more bandwidth to the user than shared medium networks while the actual cost is lowest. Also, PtP networks are really scalable, also at low volumes: customers can be added one at a time, and the central office equipment is utilized most efficiently
- Lastly, since PtP networks are the most widely deployed networks, the volume of networking components and equipment is very high, implying commodity pricing.



In ColdWire's FTTH network, each user is connected to a dedicated port on a central switch. At the same time, each user is also connected to a CATV distribution system. Therefore, in the simplest solution each user is connected to the central office with a single cable containing a fiber pair: one fiber for bidirectional voice and data and one fiber for the CATV overlay. Solutions that multiplex all signals (Ethernet/IP and CATV) on a single fiber can also be easily provided.

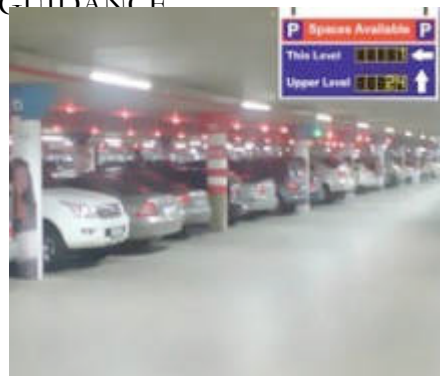
Advantage of a P2P solution over a PON system is that in PON, connections are added in groups of e.g. 32, however the actual user distribution over a deployment rarely matches this. This means that central office equipment will be under-utilized. This is especially important when a FTTH network is expanded, and extra splitters and CO equipment have to be added just to provision a few customers.



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## PARKING MANAGEMENT AND GUIDANCE SYSTEM

The number of cars users is growing rapidly and the problem between cars and parking spaces becomes bigger and bigger in already crowded urban areas. Development of sophisticated Parking Management Systems is the need of the hour. Taking initiative in this domain our management decided to put together a solution in order to meet the growing demand for Organized Parking.



With the help of our associate partners our team developed a Parking Management System that enables one to overcome the major issues faced by any multilevel car park in the country.

In order to improve the data gathering and efficiency of management in the parking lot and offer the car owners a safer, quicker, more comfortable and convenient way to locate parking spaces, PGS is required.



- An Ultrasonic Parking Guidance system is networked that flawlessly guides the car to the empty spot without any human intervention. Thus saving time, lowering of operational cost and enhanced customer satisfaction.
- Allocating reserved parking spaces for staff or regular clients as per their needs.
- Real-time data gathering of the number of parking slots empty without any use of manpower.
- Number plate identification system integrated in order to gather information about how many times a particular car has been parked inside the car parking in a month or year.

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## RFID BASED SOLUTIONS

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### RFID BASED VEHICLE AND VISITOR ACCESS MANAGEMENT

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Coldwire Technologies combined with its knowledge and vision has greatly excelled in the field of providing all kinds of RFID based solutions to its clients.

RFID stands for Radio Frequency Identification and has changed the way how security systems work.

In today's world the security of a premise has become one of the major causes of concern for Hotels, Commercial Buildings & Residential Societies all over the world. RFID based

security solutions have proved to be highly effective and cost effective to cater for all the major security related issues. We at Coldwire, have designed and implemented custom made solutions in order to provide a safe and secure environment to all our customers.

## 1. Vehicle Access Management

A RFID Tag is fixed onto a vehicle which is tamper proof i.e. the Tag if tampered with or removed is self destructive and cannot be used again. Only those vehicles bearing a valid RFID Tag will be allowed to enter through a Boom Barrier/Gate controlled by a RFID based Reader/Controller. It allows the operator to control all the gates or entry points through a centralized server, thus ensuring that no unauthorized vehicle enters the premises.



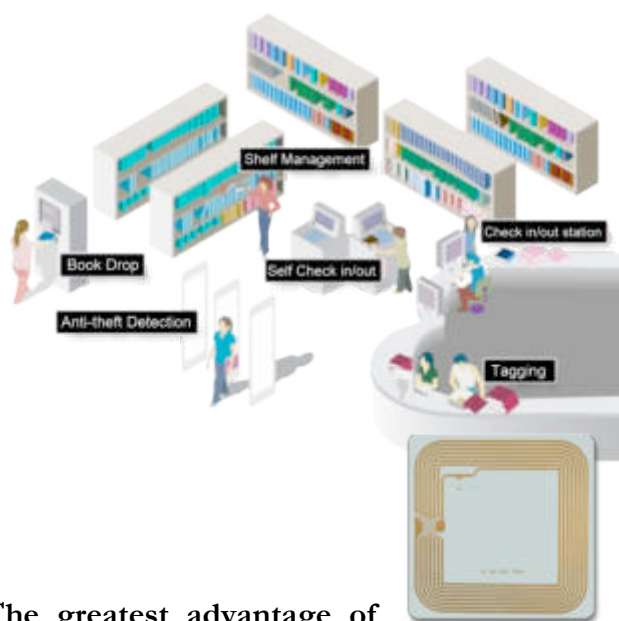
## 2. RFID Based Visitor Management System (VMS)

VMS is designed to cater for recording all details in a systematic order for all visitors, employees or any other personnel who enters the premises. This system can also be integrated with the LIFT Access System in order to restrict access of individuals to the authorized floors only. Also, the same card can be integrated with readers and controllers of individual doors in order to restrict or grant access to certain rooms or areas of a building.

## Asset/ LIBRARY MANAGEMENT SYSTEM

RFID (Radio Frequency IDentification) is the latest technology to be used in library theft detection systems. Unlike EM (Electro- Mechanical) and RF (Radio Frequency) systems, which have been used in libraries for decades, RFID-based systems move beyond security to become tracking systems that combine security with more efficient tracking of materials throughout the library, including easier and faster charge and discharge, inventorying, and material handling.

Keeping the technology in mind and its capabilities a solution has been designed by our experts for flawless book handling. **The greatest advantage of using our system is that we guarantee the lowest cost for this system in the industry, yet meeting customer requirements.**



## Advantages of Using RFID

- RFID tags replace both the EM security strips and Barcode.

- Simplify patron self check-out / check-in.
- Ability to handle material without exception for video and audio Discs.
- Radio Frequency anti-theft detection is innovative and safe.
- High-speed inventory and identify books which are out of proper order.
- Long-term development guarantee when using Open Standard.

### ASSET MANAGEMENT SYSTEM

The precious and valuable inventory being maintained in a premium organization/industry needs to be preserved and secured against threats of theft, replication etc. Also, a system is required to keep record of periodic and scheduled maintenance. Our RFID based Asset Management system can be customized to address the issue in its entirety.

Coldwire's RFID solutions enable you to advance your business to a new level of efficiency by providing greater visibility into your inventory as it moves across the supply chain. With real-time tracking information, you'll always know where your critical business assets are.



#### Asset Management Benefits

Diverse companies have deployed implementations of RFID applications for asset management with tremendous success. Regardless of what type of asset you use in your business, Coldwire's RFID system can automate and error-proof your critical business process, delivering a wealth of benefits to the enterprise.

- **Increased productivity:** Employees spend less time tracking down missing or misplaced equipment
- **Improved asset maintenance:** Assured adherence to critical and routine maintenance procedures such as calibration.
- **Improved efficiency:** Secure, around-the-clock access to stock rooms for improved efficiency — without human intervention
- **Increased utilization:** Improvements in asset visibility and utilization reduce the need to purchase or lease spare parts and equipment
- **Reduced capital and operational costs:** The reduction in the loss of assets reduces the need to purchase and manage additional assets

#### IT Asset Management Benefits

- **Increased IT asset process automation and utilization:** With RFID, IT assets are identified, located, and tracked automatically, increasing the Total Cost of Ownership and extending asset lifetimes

- **Improved service levels:** Efficient replacement, swap and maintenance of IT Assets  
increase operational uptime
- **Increased Security:** Increased accountability of media and data tape tracking safeguards sensitive data, and ensures backup and redundancy
- **Regulatory Compliance:** RFID can help businesses reconcile assets claimed on books with assets in possession for Sarbanes Oxley (SOX) compliance
- **Reduced Energy Consumption:** RFID can Monitor and moderate the peak power usage within data centers for optimal service level agreement reporting

## IN BUILDING ACCESS CONTROL SYSTEM

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"No admission" signs never did stop any one. Using our experience and knowledge we have developed our own technology in order to meet various access control requirements of our customers. With our solutions one can ensure that movement of people within your organizations is permitted only to authorized personnel with minimum human intervention. The system validates entry/exit by door, time and day of week. By integrating electro-magnetic locks, Electric Door strikes, control can be enhanced for any applications. All movements are logged to enable generation of customer reports as per customer requirements.



### Systems Implemented

- Attendance System
- Single Door access
- 2 Door access
- Multi Door access
- Finger reader with Card access
- Electro Magnetic Lock

## HOME AUTOMATION

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Coldwires Intelligent Home Automation System uses sophisticated computer technology, network communication, and electronics, in order to integrate all kinds of home appliances to achieve "interoperability". Intelligent Home Automation System can be divided into five parts; they are "scene control", "logic automatic control", "Remote Control", "family entertainment", and "security".



We also offer various options and combinations in order to meet client's needs in their desired budget. **The main advantage of using our system is that it includes the option of integrating the entire system on the house owners Smart Phone that enables them to control everything with just one device.**

There are various control and interface modules, complex functions to meet the user requirements and possible future expansion of system functionality upgrades. At the same time,

Coldwire's Intelligent Home Automation System is an open system; it can work with district security systems, fire systems, telecommunications systems and other systems.

The control is Flexible; the user can select the LCD panel, comfortable touch button panel, ordinary switch panel, color touch screen, remote control, automatic logic, time, timing, the smart phone system and other ways to control the remote scene or a combination of devices or independent device. Specific control methods are according to actual needs of users. The best part of our system is that the users determine the functional design.



## DIGITAL SIGNAGE

With the growing demand for brand building and advertising through Digital Signage's the market has opened doors to great advancements in this domain. Coldwire has developed a strong association with some of the leading manufacturers in the industry across the globe and boast to offer the lowest price without compromising on technology and quality.

### Advantages of Using Coldwire's System:

- Our Solution comes with a High Definition Digital Signage Management System that ensures low-maintenance and lower power operation when compared to the x86 Architecture.

- With RISC-Based Microprocessor Architecture Design and the highly acclaimed Web-based Central Software platform, now you can easily setup and manage your Digital Public Display & Signage Solutions even in a WAN Mode
- Customize the System Architecture Design to match your needs using the three interchangeable slots in the embedded Media Player.
- Connect using the "Blind-Mate" Architecture to add an Expansion Module and rest assured of a number of reliable operations while the modular design minimizes the use of any external cabling, giving you a cleaner design.
- Flat Panel Mounting interface with open-frame chassis allows you the flexibility to mount the apparatus into the furnishing decor.



## MISCELLANEOUS SECURITY AND OTHER SYSTEMS

### INTRUSION ALARM SYSTEM

The Intrusion Alarm System (IAS) provides for detecting and alerting the occupants, of any attempted entry through all entry or exit points, windows and also provides for detecting the movement of an intruder within the protected premises.

IAS provides to deter an intruder or provides an alert by setting off a siren on detecting intrusion. In addition to intrusion detection, this device also includes systems like:



- LPG Gas Leak Detector
- Smoke Detector
- Emergency Panic Button
- Communicator (Auto Dialer)
- PIR (Passive Infra Red) Movement Detectors

#### Salient features of the system:



- IP-based wireless security & home automation system
- Remote control over Internet, telephone or cellular
- System contains a maximum of 128 burglar zones plus 64 fire zones



- Interactive programming with 16 - character x 2 LCD display
- Detailed 512 events log with time tag
- Accommodates 16 x-10 power switches for home automation
- Receiving RF signal strength indication and jamming detection
- Hopping - code remote controller for high security
- Built-in voice dialer stores up to 6 phone numbers, plus 2 CMS data links
- Optional GSM module for supporting communication link
- Hands-free speakerphone, 2 - way voice communication for emergency
- Auto - reporting to inform parents when children arrive or leave home
- Wireless temperature & humidity sensor with programmable high / low alarm limit
- Emergency alarm and monitoring for the elderly
- All in One System
- Smart code with Multi-Million combinations
- Multi-Zone with Selectable Partial Alarm
- Sirens and Auxiliary Relay Output
- Water proof Medical Help Button
- Unique Inactivity Monitoring zone

### BOOM BARRIERS

We carry a wide range of FAAC & Beninca Barrier Systems. Traffic Barriers can be used on main entrances on all types of commercial properties. Barriers sizes are available from 3.5 Meters to 7 Meter Beams and run on high speed and standard speed motors.

We can carry-out all necessary ground works required, including concrete platforms and commissioning of barrier.



### POP-UP BOLLARDS

POP-UP Bollards are highly impact- and weather-resistant metal cylinder, equipped with a piston mechanism to allow controlled movement. It is housed in a specially designed compartment placed in the road paving for use as traffic and/or parking bollard. In collaboration with our partner we offer a wide range of Bollards as per client requirements.



## VISITOR MANAGEMENT SYSTEM

The visitor management system is a state of the art system for managing the incoming visitors through a computerized system. The visitor permissions are managed through a network based application program and has a greater advantage over the present paper / register based system.

- The Visitor Register facility is designed to facilitate the organization in doing away with the manual process of filling up of visitor passes. The passes are instead printed on to a self adhesive sticker, which can be easily displayed on the garment of the visitor. The bonus advantage is the printing of the photograph of the visitor which is captured through a webcam and printed onto the sticker pass. In case you feel that the security areas are usually manned by non-computer / Basic English literates, these apprehensions can now be laid to rest, as we also provide the facility of Vernacular translation of the fields and can be easily comprehended by even a non English literate.

### **Partial Client list:**

#### Hospital Clients :

- AIIMS- New Delhi
- Government Medical College & Hospital – Agartala- Tripura
- Nayati Hospital, Mathura- UP
- Institute of Liver and Biliary Sciences (ILBS), New Delhi
- Apollo Spectra Hospital, Gwalior- Madhya Pradesh
- West Bengal Sammilini Medical College & Hospital, Bankura- West Bengal
- Guru Teg Bahadur Hospital, Amritsar- Punjab

#### Airport Clients

- IGI Airport (GMR)- New Delhi
- Tribhuvan International Airport , Kathmandu

#### Hospitality Clients:

- Radisson- Jodhpur
- The Park, (ARH), Amritsar
- Fairfield Marriott- Jodhpur
- Trillion Hotel- New Delhi
- Triton Hotels and Resorts Pvt Ltd (Fairmont Hotel)-Jaipur
- Marvel Hotels Pvt Ltd (Hotel Radisson)- Haridwar
- Pinkcity Buildwell Pvt Ltd (Hotel Radisson) – Jaipur

#### Other clients:

- President House (Rashtrapati Bhawan), Kathmandu-Nepal
- Indian Navy Vizag
- Indian Coastguards Kochi
- Nepal Rashtriya Bank (NRB)- Kathmandu
- Migsun Group-NCR
- DTTDC Limited  
(Delhi Tourism and Transportation Development Corporation)-New Delhi
- GDA (Multilevel Car Parking at Vaishali Metro Station)



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- Jaypee Group's Gautam Buddha F-1 Race Track- Noida
- New Zealand Embassy, Chanakyapuri- New Delhi
- Supertech Limited, Noida
- B L Gupta Constructions Limited (BLGC)- New Delhi/ Noida/Gurgaon.
- Sterling & Wilson-Noida
- Ansal Buidwell-Delhi, Meerut, Chandigarh,
- Baani Landbase Pvt Ltd-Gurgaon
- M2K Builders-New Delhi
- Ashok Leyland- Rudrapur
- Aditya Infotech Limited-Gurgaon
- Addverb Technologies - Noida
- Saaringa Construction Private Limited- Faridabad
- NCC Limited- Agartala

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