

Digital Controls & Automation

Company Profile

DCA is a System Integration company providing high end safety, security and automation solutions.



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PROFILE

INTRODUCTION

Digital Controls & Automation is incorporated by the experienced automation hands.

The owner and other members who launched DCA have rich experience in the Building automation, Surveillance, Fire and Security services.

We understand the need of the customer and deliver the commitments. We always follow the “Customer First & quality”

We never compromise with the Commitments, quality and Customer services.

DCA team is experienced in all major brands and has tie ups with all the major OEM of the industry.

We offer a unified approach to fulfil the multitude of specific requirements of each project with proven ability to meet these requirements within pre-established financial limits & time.

ABOUT US

Digital Controls & Automation has established itself as one of the most competitive system integrator and integrated system provider.

At DCA, the design of services system is a process beginning with ideas, translated into plans, which are then carefully co-ordinate through each phase of activity to produce the desired, designed and customized engineered solutions

We have gathered a staff of the highest caliber and have developed policies and procedures to insure quality of the first order.

DCA has the in house testing lab and on line support facility to provide the quick support to the customer after sale.

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.

MISSION

To be the leading provider of System Integration solutions in the domain of multi technology of automation, Surveillance, security and Fire Alarm 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

- **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.

PRODUCT RANGE

In simple words, we turn customer ideas into reality. The problems that seem very complex to the end user can easily be envisioned by us.

OUR EXPERTISE

1. Building Automation
2. Surveillance (IP, Analogue)
3. Data and Voice Ethernet Networks (Data and Voice Service)
4. Fire Alarm / protection & PA
5. Parking management and Parking Guidance system
6. RFID Based Solutions
 - Asset Tracking
 - Library Management System
 - Employ Attendance
 - Automated Access Gates
7. Access Control System
8. Home Automation
9. Indoor and Outdoor LED Digital Signage's
10. Under Vehicle Scanners
11. Intrusion Alarm System

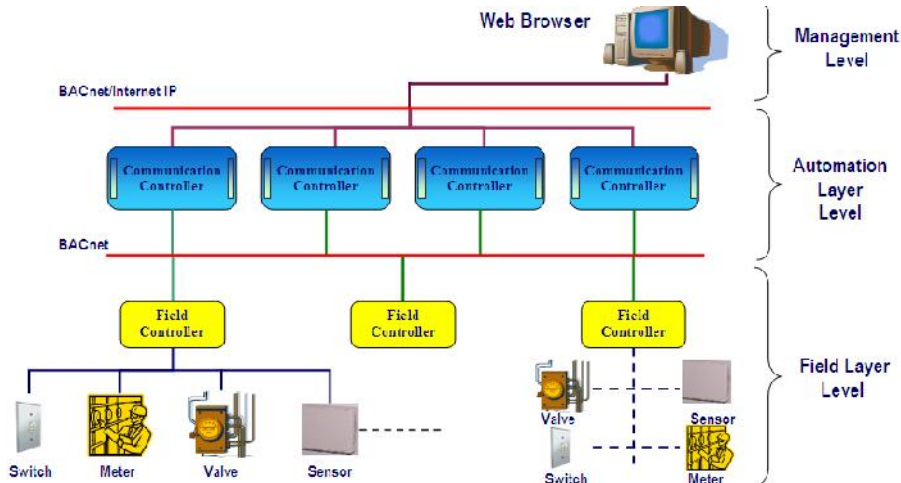
SOULTIONS BRIEF Building Automation

Software based building automation

- Chiller plant Manager
- Speed drives management
- Lift /Escalators Control and management
- Energy saving and Audit Report
- Fire Alarm, Fire Fighting and Access Control Integration.
- LT/HT Monitoring and Controls
- DG operation via centralized controls
- Load Management
- HVAC Consumption via BTU meters and management through Centralized BMS
- Temperature Controls via Centralized BMS

Integrating the diverse systems within your building is a vital element of energy efficiency and increased productivity. We DCA have the expertise that it takes to help you with systems integration across your entire organization.

Our OPEN SYSTEM comes complete with a number of features designed to make systems integration effortless. DCA also offers custom systems integration solutions to guarantee compatibility through every one of your building subsystems.



We at DCA does the all type of building solutions, different segments for the building management system.

Our team is well trained for the requirement of the different sectors. We do the micro engineering throughout the project cycle.

We provides the custom tailor made solution to the customer. We deliver the commitment through the innovation of the automation.

Our quality team is very committed towards the quality, team takes the Zero tolerance in the quality.

Our project team guide to customer in regard to the solution. We follows with the third party for the job completion and the dependencies for the completion.

We never runs from the responsibilities, we always take the challenges.

DCA provides the open solution, we execute in the professional manners and our work and quality differes us from the others.

We, know the criticity of the system execution, we guide to the customer and we always escalate the things before time.

We have best OEM support, our team is well trained in the system engineering, design , execution and commission.

We trained our customer upto the satisfaction level .

SOULTIONS BRIEF

CCTV SURVEILLANCE SOLUTION

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

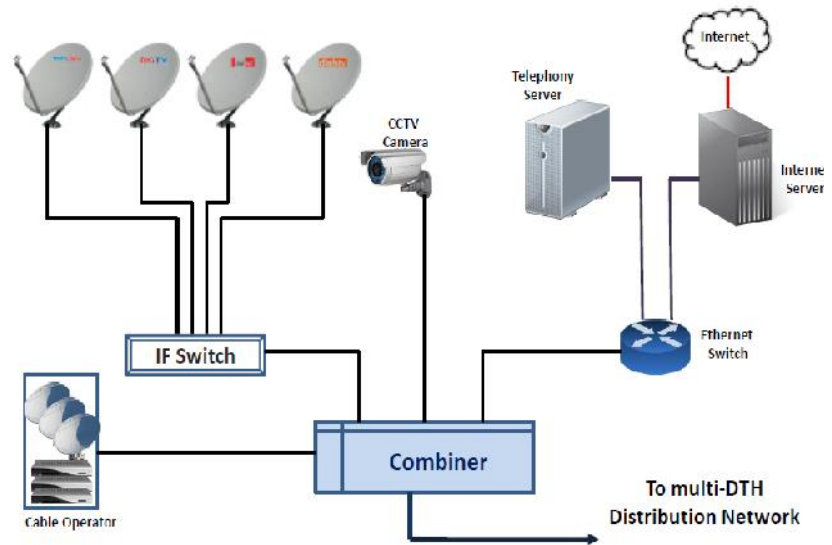
- Dome Camera
- IR Dome Camera
- CCD Camera
- IP Camera
- IR Camera
- Speed Dome Camera



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. DCA'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.

-  **Multi DTH Satellite Services**
-  **Closed Circuit Television**
-  **Broadband Internet Access**
-  **Telecommunication**
-  **Cable Television**

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)

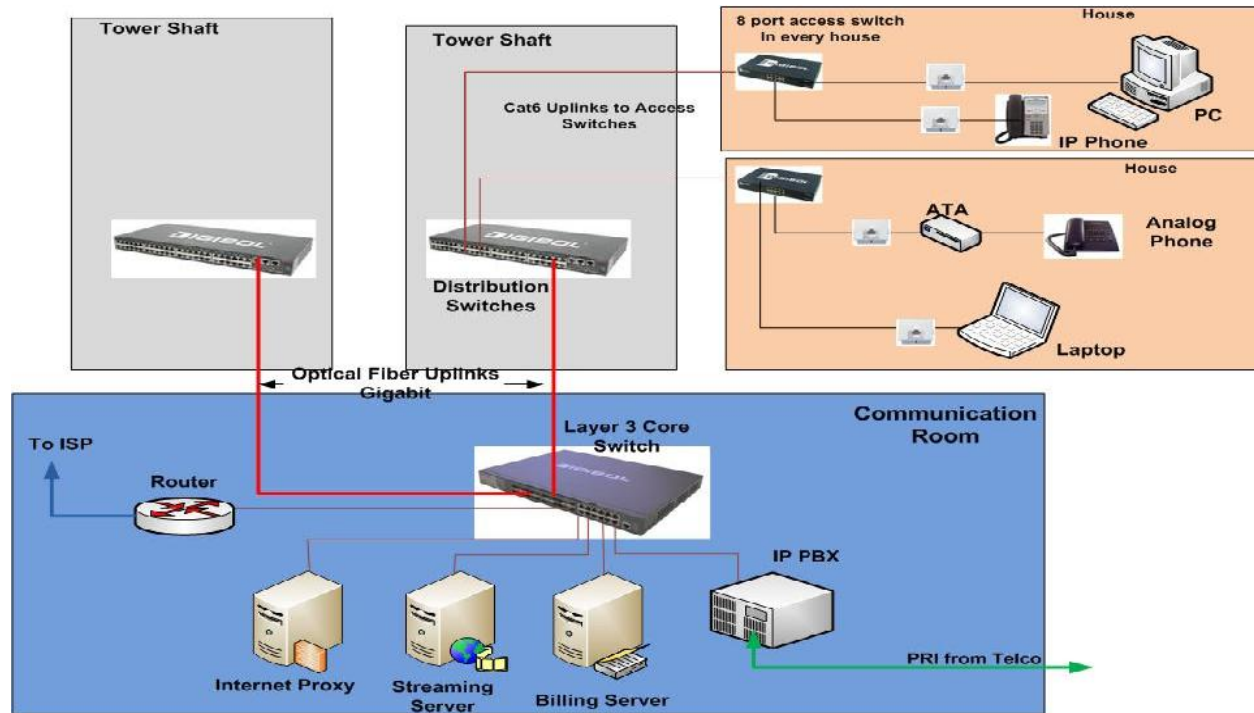
Today global companies are harnessing the power of Internet to connect across various stake holders - employees, customers and partners - spanning multiple locations across the globe. Given the scale, an enterprise class data network has to be heterogeneous, robust and scalable.

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 DCA 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.

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 county.

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.

RFID BASED SOLUTIONS

RFID BASED VEHICLE AND VISITOR ACCESS MANAGEMENT

DCA 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 DCA, 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.

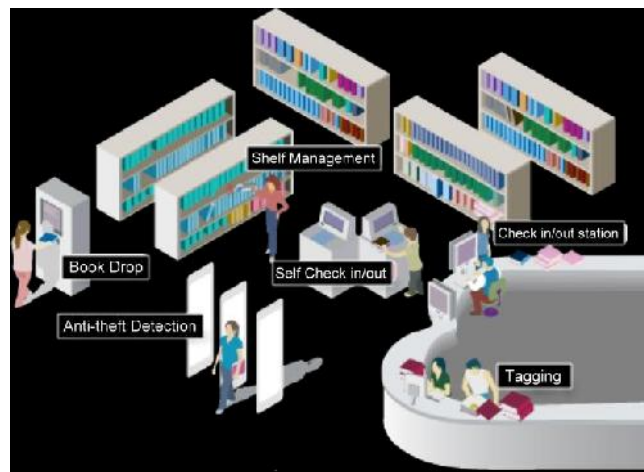


2. RFID Based Visitor Management System (VMS)

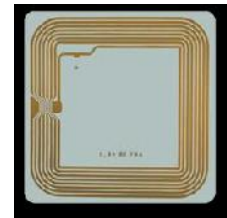
VMS is designed to cater for recording all details in a systematic order for all visitors, employees or any other personnel who enters the premises. This system can also be integrated with the LIFT Access System in order to restrict access of individuals to the authorized floors only. Also, the same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

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.

DCA'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, DCA'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

"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.

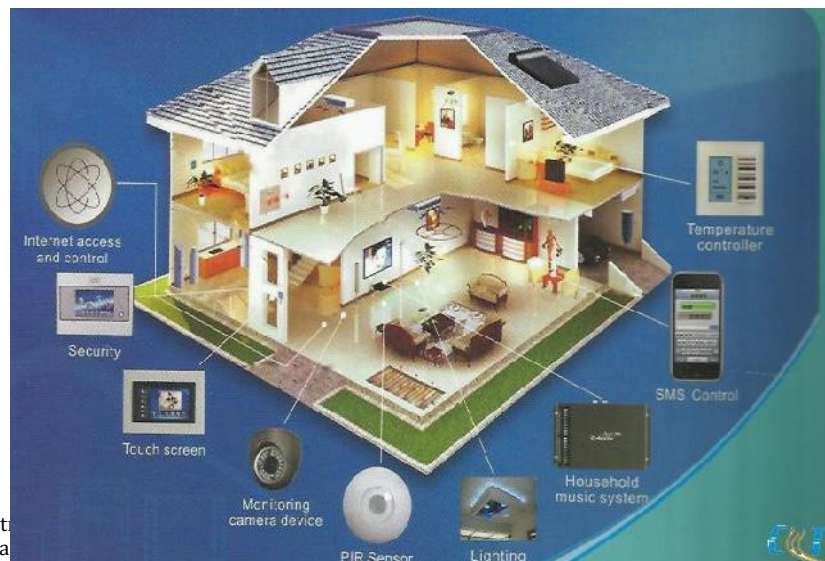
Systems Implemented

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

HOME AUTOMATION

DCAs 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, DCAs 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. DCA 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 DCA'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



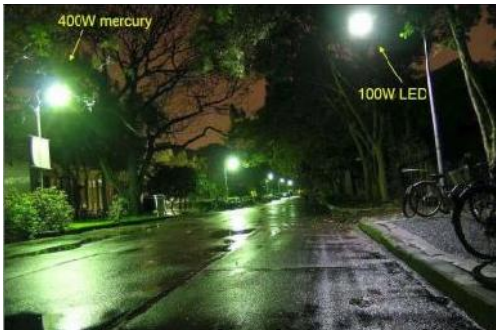
any external cabling, giving you a cleaner design.

- VESA FPMPMI Compliant Flat Panel Mounting interface with open-frame chassis allows you the flexibility to mount the apparatus into the furnishing decor.

LED LIGHTING

The world told is talking about a GREEN WORLD and Energy Saving which is a must. By using LED Lighting we can make a beginning towards creating an Eco Friendly environment by conserving energy to a great extent.

By using advanced Thermal Technology we are able to maintain



the LED's performance and thus have a long life operation and the LED lights can also be run on Solar Panels. LED's Last of 100,000 Hours (Even if we consider 50,000 hrs. life, they would last for 10.60 Years). Also, LED's can withstand vibration, heat and extreme cold without affecting it's performance.



We are associated with Screentech (Australia) as our Technology Partners, an Australian business at the forefront of LED Technology. Screentech has been designing and manufacturing LED products since the last 10 years and their product is currently operating in over 15 countries.

Our product Range for LED Lighting includes:

- Street Lights
- Backlighting of signage and advertisement displays
- Indoor lighting for commercial and domestic properties

Using advanced technology and electronics, LED lighting saves upto 60 – 70% in termes of power consumption. The chart below shows the Comparison of Street Lights Conventional Lights versus LED Lights

Conventional Lights / Power consumed	LED Lights / Power consumed	Savings in power / Percentage
High Power Sodium	LED	
250W HPS / 300W	100W LED / 105W	195 W / 65%
150W HPS / 180W	50W LED / 55W	125W / 70%
	30W LED / 30W	150W / 83%
70W HPS / 84W	30W LED / 30W	54W / 64%
	15W LED / 16.5W	67.5W / 80%

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

FAAC 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.



VIDEO DOOR PHONE

A video door phone is a security device which allows you to see who is at the front door before you open it. This is an excellent technology product which enhances home and office security. Video door phone consists of an outdoor camera unit which is installed on the front door and an inside monitor.

Major components

- 5" / 7" color TFT-LCD screen
- Expandable up to 4 monitors and 3 door cameras
- Intercom features between video monitors
- Convenient touch pad control : first video door phone with sensitive blue icons
- Brightness and volume controls with OSD menu



- Plastic household camera included (SHT-CN510)

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.

CLIENT LIST

PARTIAL CLIENT LIST AND WORKS UNDERTAKEN

1 CELBI International, IGI Airport	New Delhi
2 Holiday Inn, Mahipal Pur	New Delhi
3 Climate Controls	New Delhi
4. Abuja Cement Co prorated off	Gurgaon
5. Innovative Builders	Manesar
6. Holiday Inn, Mahipal Pur	Aero City
7. Wave Hospitality Pvt. Ltd.	Mahipal Pur, ND
8. KLJ Developers Pvt. Ltd.	New Delhi
9. Macro Engineering Pvt. Ltd.	New Delhi
10. Somany Tiles	Bhadurgarh
11. Hindustan Glass	Bhadurgarh
12. China Garden	New Delhi
13. DLF Queens Court	New Delhi
14. Mr. Somany Residence	New Delhi
15. ITC, Manser (AGC)	Manesar

