HOUPER

Eight Principals of Quality Management

The manager of Pardisan control development, consulting and engineering company employs eight quality management principals in its daily activities, through which promotes the efficiency, and completes the operation within employers accepted schedule, by taking into account safety precautions and desired quality, as well as making effective and reciprocal relationship with customers and expanding the range of activity. The perspective of Pardisan control development, consulting and engineering company manager toward the eight principals is as following.

Eight principals of Quality Management

Technology and Development
are the best ways to make your dreams come true

1. Customer-oriented
2. Management
3. Teamwork
4. Process Approach
5. System Approach for team management
6. Continuous Improvement
7. Factual approach to decision making
8. Win-win relation with supplier

Perspective:
In current century, with development of science and significant promotion of new technologies, all human society are decided to improve new advanced technologies in order to control the existing mechanisms of the world. They look for a better world by developing welfare and security. Inspired by such idea, we have established Pardisan control development consulting engineering company, known as HOUPER. Accordingly, with the aim of providing engineering services in the field of design, consulting, furnishing equipment and implementation of EPC project, based on international standards in proposed phases, we have recruited the best professionals with a highly successful background in implementation of national project.

Control development, Engineering and Consulting services of Pardisan Company HOUPER

Control development, Engineering and Consulting services of Pardisan Company

HOUPER

۱.Preliminary Study for Investment

۲. Engineering Design (Basic and Detail Design)

۳. Supplying Equipment

٤. Installation, Implementation and Operation Training

٥. Management Contracting (MC)

٦. Supervision on Project Operation

۷. Engineering, Procurement and Construction Management (EPC)

۸. Production

۹. Repair and Maintenance

HOUPER's Field of Activity

١-Building and Construction Industry

٢- Urban Design

٣- Oil , Gas & Petrochemical Industry

٤- Transportation Industry

٥-Mining & Industrial

٦- Historical Places

٧-Environment

٨- Climate Smart Agriculture

HOUPER's Field of Activity

Security & Safety & Audio

Security , safety & Audio Department

BMS & Logistics

Communication & Network

Advertiment & Information System

Electrical & Control Instrumentation

Energy

Mechanical

Architecure and Civil Engineering

Security, Safety & Audio Department

Video Surveillance System (CCTV)

Processing high-risk behavior, analysis of human, animal and industrial performance by video surveillance system, using artificial intelligence processes and intelligent monitoring on images by reducing the human error factor in monitoring, review and integration and the removal of physical barriers and any limitations of direct sight with the help of combined technologies are among the important parameters of video surveillance system in current century.

Video Surveillance System

- Installation and implementation of thermal camera(Zero Kelvin)
- Removing environmental disturbing factors in images(fog, dust and air pollution)
- Video tracking using radar guidance
- Reducing the errors in recording and reading license plates
- High-speed panning and easy control
- Software simulation for layouts
- Anti-shock, bullet, and anti-explosion equipment
- Monitoring, transfer and retrieval of images without geographical restrictions
- Integration of transfer technology for optimal implementation of public address systems
- Control, error detection and related alarms for correct performance of production and transfer lines by instrumentation techniques
- Integration with other related systems

systemes

Security, Safety & Audio

Video Surveillance System (CCTV)

Access control (ACS)

Traffic & Gate control

Vehicle x-Ray

Navigation & Tracking Management

Intrusion Alarm System (IAS)

License Plate Reader (LPR)

Fire Alarm System (FAS)

Parking Management System (PMS)

Handheld Security Device

Physical Security Information Management (PSIM)

Perimeter Intrusion Detection System (PIDS)

Fire Suppression System (FSS)

Fire & Gas System (F&G)

People Counting

Footfall management

Radar

Central & Local Control Room

Security Entrance Control System

Voice Evacuation System

Public Address (PA)

Exit/Emergency Lighting system

Disabled Toilet Alarms

Background Music (BGM)

Water Leak Detection system (WLD)

Bird Scare Technology

Global Maritime Distress and Safety System

VTS/AIS

Traffic & Gate Control

We need to obtain the required permissions to enter specific areas. Traffic management, added value and enhanced security are guaranteed by such permissions. Traffic and gates control systems at entry and exit doors helps us in intelligent control of traffic, automatic payment for services provided and authentication for entry to areas, using biometric parameters.

- Electrical, hydraulic and pneumatic systems
- Speed, flap, turnstile, subway, wheelchair and glass wing gates
- Variety of techniques to facilitate payment
- Intelligent Identification systems
- Vehicle gate with speed control
- Integration with license plate reader, video
- surveillance, fire alarm, Parking management and access control systems
- Integration with related systems

Access Control (ACS)

Intelligent access control gives the feeling of superiority, value and respect to the people. Monitoring and intelligent control of vehicle traffic, foot traffic and animals, without the involvement of individuals and by recording the information and identification of individuals, helps us to improve security, avoid extra foot traffic, prevent intrusion, and facilitate management and analyze statistical information.

- Implementation of monitoring and surveillance scenarios
- Layered security levels based on geographical areas and time
- Identification of individuals using biometric sensors(hand geometry, face and cornea)
- No need to simultaneous connection to central sources of data centers
- Control of active and passive tags (personnel, equipment and animals)
- Control and avoiding simultaneous access
- Implementation of integrated payment scenarios
- Access control in specific areas and clean rooms
- Theft protection solutions
- Integration with other protection and security systems
- Providing statistical and management information

Today, people, equipment and animal tracking is considered as one of the important needs for optimal management of resources. Determining the exact location of the subject, routes and stops to helps in performance management. Also, monitoring the transportation of precious goods and office supplies within predefined range doubles the productivity of organization.

Vehicle X-Ray

Navigation & Tracking Management

- Subject tracking with RFID technology
- NFC Systems, Bluetooth, Wi-Fi, infrared, radio frequency, satellite, GSM
- Determining specific zones for management of entries and exits
- Vehicle route control
- Surveillance systems, satellite monitoring and control of vehicles, ships and aircraft
- Motion processing and movements of animals in the environment
- Monitoring the performance of personnel and office equipments in the organizational position

Accidents caused by acts of terrorism and drug mafia gang, kills thousands of people each year. Also, the transfer of explosives, precious equipment and human trafficking impose an enormous cost to the states. Vehicle diagnostic system with the help of smart processing practices and performing cargo and vehicle scanning provides the clients with accurate reports in the shortest time possible.
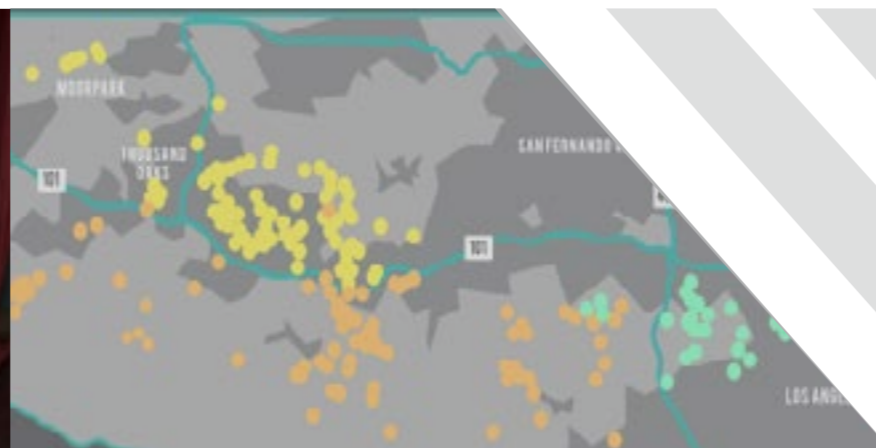
License Plate Reader (LPR)

Increased vehicle traffic in urban and suburban centers and the incidence of traffic crashes and violations on the one hand, and the need for control and monitoring in specific areas and obtaining required permission on the other hand, are the main reasons to use vehicle identification system.

- Detection of different types of license plate
- Simultaneous identification of driver and vehicle
- Speed control and number plate recognition system
- Potential error analysis and reduction system
- Integration with parking management and access control system
- Integration with other related systems

Intrusion Alarm System (IAS)

Peace and security is one of the richest human emotions upon which a series of social activities are ideally done. Monitoring and control Systems to prevent intrusion and theft consist of a set of solutions for implementation of security services in specific areas.

- Intrusion detection equipment for various entries
- Detection of and living organism and motion
- Various solutions for announcing the intrusion
- Explosion-proof and moisture-resistant equipment
- Integration with access control and video surveillance systems
- Integration with other systems related

- Detection sensors and guidance using license plate
- Ultrasound and magnetic sensors
- Detailed statistical analysis of traffic for guiding the vehicle
- Wireless sensors for installation in asphalt and concrete
- Urban and free space equipment
- Traffic signs for navigation
- Integration with satellite and GPS systems
- Automated fee calculation and payment system
- Display boards for guiding the driver to parking spaces
- Integration with access and gate control system

Fire Alarm System (FAS)

Parking Management System (PMS)

With the increase in number of vehicles, finding a parking space has become a serious problem for car owners. Parking management system is the best solution to guide the driver to the nearest parking space. The promotion of social order, time management and customer satisfaction are the most important result of this system.

Fire Alarm System (FAS)

For many years, the fire has been one of the most tragic disasters and the survivors are faced with loss of life and property. With regard to the fuel cycle in building areas, this incident is what its probability is very high. Using a variety of fire detection equipment, intelligent systems provide different strategies for early announcement of fire or warn of its possibility. Nowadays, analytical technologies with accurate information processing introduce new strategies for this purpose.

- Addressable and conventional fire alarm systems
- Linear heat detection equipment (cable, fiber optic)
- Sampling equipment and analysis of air
- Linear beam infrared smoke detection systems
- Combined detection equipment for outdoor use
- Infrared and ultraviolet equipment
- Explosion-proof equipment for potentially explosive areas
- Smoke and fire zone control scenarios
- Obtaining licenses and related standards
- Integration with ventilation, fire alarm and gas detection system, video surveillance and access control system
- Integration with related systems

Physical Security Information Management (PSIM)

Hand Held Security Device

Registration and storing of documents, objects and key, valuable luxury equipment with high security standard are in the first priority to individuals and organizations. The importance of management and the way to use such objects have been the main motivations for establishment smart centers with special and specific capabilities.

Detection systems for identifying sabotage equipment, devices for terroristic acts, narcotics and radioactive materials, to be used by security guards, is one of the most effective security solutions in different areas.

Fire is one of the most likely incidence of human life that affected the life and property of so many people for years. Fire suppression system is a suitable solution for extinguishing fire in the shortest time to prevent fire spreading.

Perimeter Intrusion Detection System (PIDS)

The use of physical barriers, walls and fences and terrain is not a suitable strategy to prevent intrusion and sabotage for important places, but such solutions reduce the level of security. Smart systems determine the status of perimeter protection by recognizing and simulation of measurement criteria and analysis of surrounding area.

Fire Suppression System (FSS)

- Gas based fire extinguishing systems (CO₂, FM۲۰۰ and aerosols)
- Water-based fire extinguishing systems
- High-pressure water fog system for extinguishing fire
- Calculation and simulation related to fire suppression systems
- Portable and automatic rifle firefighting equipment
- Integration with fire alarm systems, access control
- Integration with other related systems

- Protection of physical barriers, including walls, fences
- Preservation of natural territories such as mountains, rivers, forests, savannas and open areas, rooftops and gates
- Microphone, microwaves, magnetic, optical, infrared, and thermal video systems
- Anti-intrusion systems like electric fence
- Removal of weather factors such as snow, rain, wind and heat from sunshine, extreme cold or vibration
- caused by the movement of heavy equipment and machinery and animal movements
- The use of intelligent processors in detection of any attempt of intrusion, climbing or cutting and vandalism
- Taking advantage of the humane patterns such as walking speed or manner, running, crawling on hands or knees
- Protection against electromagnetic and radio frequency interference, and crosstalk between sensors
- Recognition of different types of alarms
- Integration with video surveillance and radar systems
- Integration with related systems

People Counting

Statistics is the basis for correct decision-making in management. Many jobs in production processes, large stores, the centers for healthcare services provide specific services. Providing proper methods of management, high added value and enhanced security in extracting detailed statistical information is possible using intelligent counting systems.

- Accurate and intelligent detection of foot traffic using depth image technology
- Counting vehicles and objects with intelligent processing
- Separating objects and people
- The use of artificial intelligence to analyze the traffic and images
- Detailed statistics on the number and volume of traffic per unit of time
- Warning in the entry and exit of certain objects defined
- Integration with other analytic systems

Fire & Gas System (F&G)

In oil and industrial zones, the risk of a massive event is expected due to the leakage of gases, at any time. The system that protects all equipments and the products of such areas, is fire and gas systems. The use of a detection sensors is the best solutions for implementation of such scenarios and related alarms.

- Sensors for detecting various types of toxic, explosive and suffocating gases
- Calibration, testing, and troubleshooting
- Ultraviolet and infrared sensor
- Chemical sensors
- Integration with fire alarm system
- Integration with other related systems

Footfall Management

Analysis of visitor›s behavior in marketing field, controlling the security of specific areas and sites is one of the subjects of smart analysis. And its results will create added value for business and Megamall owners in the world. In terms of security, this technology guarantees monitoring and behavioral analysis of behavior in large spaces.

- Evaluation of the popularity of various business centers
- Intelligent analysis of behavioral criteria of clients
- Processing of traffic and crowdedness in various areas
- Statistical information of peak of visits per unit of time
- Integration with other analytic systems

Radar

Detection of large-scale areas in radial pattern improves the level of protection for specific areas. Unlike perimeter intrusion detection systems that operate linearly, cover a large area and have the ability to detect any living organism and vehicle. This system is one of the best solution for monitoring in areas with less target or including land surface.

HOUPER

Security Entrance Control System

Central & Local Control Room

Human interaction with intelligent systems is done through centralized control and monitoring centers. Central Control and monitoring centers are the most important part for connecting intelligent systems to the managers of major projects, and creating operation scenarios. Passive defense, Easy operation of all available systems and implementation of intelligent processes to reduce the number of users and their participation in full-time monitoring are the main requirements of large projects. Obviously, this will be possible only by application of engineering techniques, modern design, and benefiting from advanced software.

Security Entrance Control System

Access to important and special projects and carrying out sabotage and terrorist actions by vehicle and person before identification is common in such places. Therefore, the use of entrance control systems and enhancement of security at entries is of great importance.

- Various types of biometric identification equipment
- Person and vehicle gate
- Under vehicle smart analysis
- Electromechanical and hydraulic barrier
- Integration with intrusion alarm systems
- Integration with other related systems
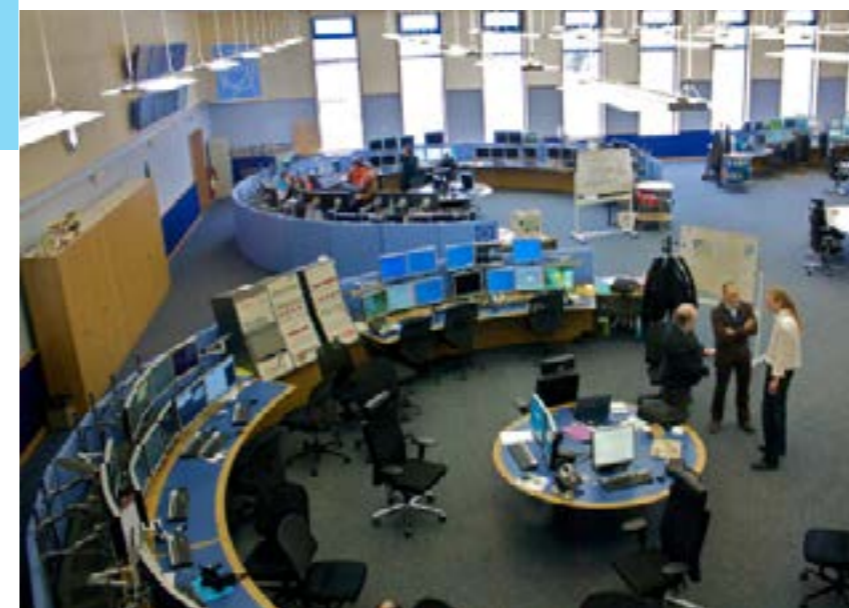
- Ergonomically designed control and monitoring room
- Design and implementation of environmental conditions and ventilation systems
- Three-dimensional simulations and related calculations
- Application of calculation on building structure to protect against explosion
- Isolation to avoid negative effects of electromagnetic waves.

Public Address (PA)

Pleasant harmonic music puts a great impact on human being and gives a sense of peace and joy. Broadcasting emergency alert, giving information and command based on the objectives and operational scenario are the important factors to use public address system.

- Automatic sound pressure levels in accordance with to ambient noise
- Transmission of emergency messages in an intelligent manner and without human intervention
- Voice transmission based on geographic location
- Three-dimensional acoustic simulation by architectural parameters
- Advanced audio systems, cinema, conference and sports
- Industrial and transmission equipment and audio coding
- Integration with musical fountains, information systems and special sports systems

Voice Evacuation System

Overcrowding and confusion at entry doors creates one of the most dangerous events in the critical moments. Lack of awareness about traffic routes and the stress to escape fire causes lack of control for a short period of time. Voice evacuation systems and two-way interaction, as well as integration of the systems will reduce the damage caused by such events.

- Audio systems with high resistance to heat
- Speakers and microphone to create a two-way interaction
- Explosion-proof systems and development in outdoor spaces
- Integration with fire alarm and public address
- Integration with related systems

Disabled Toilet Alarms

Disabled toilet alarm is used to send an alert to gain immediate help in an emergency in the toilets and bathrooms for disabled people and patients. It is also used to make phone contact in large and private projects.

Exit/Emergency Lighting system

Exit/ emergency lighting in the smoke, fire or dust and stressful situation when a building experiences a power outage can lead to a reduction in losses of human life. In this regard, the standards emphasize on the use of this equipment in large-scale projects.

- Supplying required lighting to exit the premises
- Exit signs to evacuate the building
- Explosion proof & heat resistant equipments
- Central monitoring and management systems
- Integration with fire alarm systems
- Integration with related systems

Water Leak Detection system (WLD)

Water leaks, loose soil and building movement and extensive or partial damage to building have always been one of hazards in buildings. Hazards such as fires and equipment failures are the side effects of such leakage. Intelligent systems have the ability to show exact information about soil and building damages.

Background Music (BGM)

Listening to the peacefully cheerful music can create the most relaxing and most exciting moments. Accurate calculations and acoustic technologies can change such memories to more pleasant experience. It has proven to be effective in reducing stress and improving the performance.

- Accurate calculation of environmental acoustic
- Implementation of sound -۳D solutions
- Optimum layout of speakers
- Implementation of specific centers with different architecture
- Operation of sports and recreational centers
- Integration with fire alarm systems
- Integration with other related systems

Global Maritime Distress and Safety System (GDMSS)

Maritime safety requires simultaneous use of a variety of safe and advanced navigation and marine systems. The system is able to communicate with an onshore station, in case of distress or to exchange safety-related information. The global maritime distress and safety system is designed for automation of the communication of information and emergency alert and is intended to guarantee the safety of vessels. High quality, rapid alerting and flexible communication are the main abilities of this system.

Bird Scare Tecnology

The need for effective application of control technologies to prevent any damage to components and reduce loss of human life is inevitable.

- Satellite and terrestrial communication of GDMSS
- Automatic communication of radio systems with onshore stations and the vessel in distress
- Receiving shore-to-sea emergency alerts
- VHF digital selective calling
- Emergency Positioning
- Ability to exchange messages related to search and rescue
- Possibility of exchanging messages related to localization
- Communication of message among navigation room of vessels
- Exchange of common messages and controlling maritime traffic
- Receiving maritime safety information

- Automatic radar to detect and process bird behavior
- Using laser technology
- Using ultrasound equipment
- Integration of radar, sound systems and aircraft
- Warning system for bird strike to installations
- Ability to function in adverse weather conditions(rain and fog)
- Emergency alarms and annunciation

VTS/AIS

Nowadays, Vessel Traffic Service (VTS) are developed to improve vessel traffic and manage monitoring problems. Through interaction with other ships, this system help ensure their safety and security. In addition, Automatic Identification System (AIS), as an important source of information for maritime traffic and regional monitoring network, improves service quality provided by vessel traffic services (VTS).

- Using radar and CCTVs
- Use of VHF communication devices
- Use of Automatic identification system for ships (AIS)
- Providing safety for human lives and vessels by monitoring geographical area, and tracking the vessels
- Receiving, collecting and automatic analysis of navigation information
- Ability to facilitate transportation of dangerous cargoes in extreme climate and geographical conditions, through narrow channels, bridge and dam and geographical places

Technology and Development

are the ways to make you dreams come true
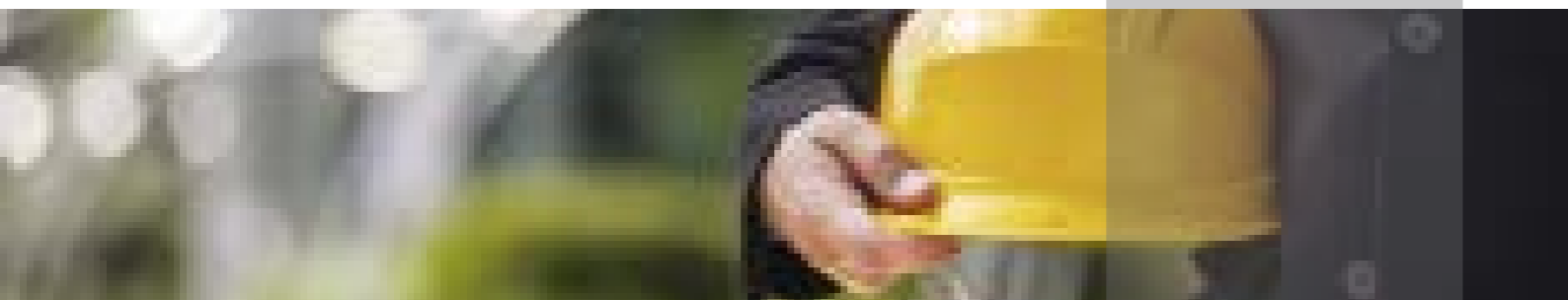
VTS/AIS

HOUPER

CONSULTIVNG & ENGINEERING .CO.LTD

Pbx : 22195498-22197122

WWW.HOUPER.COM
Email : info@houper.com

Unit ٥ , NO. ١٦ , Tarbiat Moallem Street
Corner Pak-Nejad Blvd., Saadat Abad
Tehran , Iran