



GULF SECURITY EQUIPMENT CO.

COMPANY PROFILE

Today the Term Security is synonymous with Low Current Systems, and for over 20 years "GULF SECURITY EQUIPMENT" has been acquiring agencies of renowned Manufacturers in all Security and Low current fields. Our objective is to keep a keen eye on companies with a stress on R&D.

GSE is a Specialized Low Current, Security & Communication Systems Contractor.

Starting with small-scale projects in various fields we have been picking up momentum and expertise to handle medium Sized and Large Scale Projects involving multi-level integration between various systems.

Under the Banner of Gulf Security Equipment a full integration house developed, combining Fire Alarm, Surveillance, Access Control, Automation, Public Address & Giant Voice, Intercommunication, Building Management Systems, SMATV, as well as Audio Visual & Multimedia systems...and our dedication to expanding our expertise has no limits.

In the world of SMATV, GSE's technical team is linked to the most established digital and analog, voice and video communicators, TELEVES - Spain, FAGOR ELECTRONICS - Spain, BLANKOM - Germany, DKT - Denmark, and PACIFIC BROADBAND NETWORKS - Australia. With an extensive range of high quality, reliable products, it becomes easier for us to meet every challenge, domestic or commercial. Dealing with interactive TV Systems, specialized Head-ends and video signal distribution, GSE has gained unparalleled engineering Knowledge in the Qatari Market. In response to the growing demand for CCTV, GSE had joined forces with leading manufacturers like INFINOVA - U.S.A., BAXALL - U.K. & GYR U.S.A, to offer you a wide range of high quality products.

In the present era of digital and high-speed communications, GSE can provide the solution. With the help of broadband monitoring, or an automated local monitoring center, extra staff is no longer necessary. The monitoring point can be any place in the country - or even abroad!

Fire Alarm has never been so reliable as with Notifier-USA/UK the number one Fire Alarm Manufacturer in the world, Safety has a new dimension; No false alarms no Mix ups.

Notifier can provide up to 103 Nodes per system, which is slightly above 200,000 Analog Addressable Point Detectors, a Feat Hard to emulate.

NOTIFIER has both UL & BS products, no other manufacturer has this anywhere Yet!

Building Management Systems (REGIN/EXOMATIC-SWEDEN) integrate all the above systems in one complete package with full interactive control.

Full Integration is possible both on the Hardware level by using special controllers or Software level by using Programs with various drivers. With over 4,000,000 points per system REGIN/EXOMATIC is the Leader in this industry.

GSE provides a wide range of access control products like MAXXESS - USA ranging from simple combinationkeypads to completely integrated and networked HID Proximity and/or Biometric readers.

The locking mechanism again ranging from simple electric latches to magnetic shear locks. MAXXESS also provides total systems integration such that all the systems in ones premises talk on one common platform. Similar and advanced technology is provided by NOTIFIER UNINET which delivers multi user environment and a very powerful user front end.

NOTIFIER is the first platform to provide the user interface in ARABIC.

With some of the leading Manufacturers in Electro Acoustic Systems (P.A) - BOUYER-France, QSC Audio - USA; GSE provides a strong front-end Solution for the most demanding in sound Systems. With a selection of Sophisticated Equipment, from Audio Matrices to Hazardous Zone Equipment, We cover the complete range of Public Address Systems.

GSE is a commercial audio/visual systems integrator. We design and install audio/visual systems for mediumand large businesses, schools, colleges, restaurants and houses of worship.

We are backed by the productsand technical expertise from many of the industry's top manufacturers and service providers. Our clients recognize GSE for its responsiveness, competitive pricing and exceptional quality.

Industrial doors as well as the use of barriers and turnstiles help organize the flow of traffic and people through access control. Applied to Banks, Power Stations, Hospitals and Hotels with a few of the major manufacturers in Europe like MAGNETIC AUTO CONTROL-Germany, APRIMATIC S.p.A-Italy, and AUTOMAIC SYSTEMS- Belgium, We provide you with full range of accessories like remote control, safety devices, automation etc. to suite your requirements.

All our Systems are Computer controlled, having valid UL & or BS Certifications; all our manufacturers have passed ISO certifications and are well established in the Global Market. We boast a reference list of immense magnitude and diversity, trying and striving we remain always driven towards excellence.

We believe in preparing our staff through rigorous training and updates.

This booklet gives you a brief idea about our capabilities.

We thank you for considering us and look forward to doing business with you.

Always at your service.

ADMINISTRATION

FIRE ALARM SYSTEM



The ONYX® Series

The Ultimate in Life Safety and
Emergency Communications Technology



Flexible, Expandable, Backward Compatible

NOTIFIER's ONYX® Series of intelligent fire alarm control panels have the flexibility to meet the needs of any size application. ONYX® Series panels are easily expanded with NOTI-FIRE-NET™, NOTIFIER's intelligent fire alarm network, to keep pace with your life safety needs. What's more, ONYX® Series panels and NOTI-FIRE-NET™ are completely backward compatible with existing NOTIFIER intelligent systems, so you can add-on or upgrade without having to replace existing devices.

Advanced Detection Technology

ONYX® detection delivers a rapid, intelligent response to incipient fire signatures while substantially reducing nuisance alarms. Specialty detectors supply stability and very early warning capability where unique hazards and environmental conditions exist that prohibit the use of traditional smoke detectors.

Integrated Audio Evacuation and Paging

ONYX® Digital Voice Command (DVC), NOTIFIER's multi-channel digital audio evacuation and paging system, features eight channels of industry-leading quality audio, five firefighter telephone channels, wire, fiber or hybrid options, and can broadcast multiple, distinct messages throughout an entire facility or across a campus simultaneously.

Easy to Use and Maintain

ONYX® Series panels feature full QWERTY keypads, large 80-640 character LCD displays, and intuitive menu options, making it easy for facility managers to perform routine system maintenance, testing, and basic programming functions such as enabling or disabling points. If an intelligent device is ever damaged and needs replacement, facility personnel can do so quickly and easily without the need for special tools or programming software.

Speed, Stability,
and Reliability



NOTIFIER
by Honeywell

Intelliquad™ PLUS – Combination Smoke / Carbon Monoxide (CO) Detector

NOTIFIER's Intelliquad™ PLUS detector is a plug-in, addressable device that provides both fire and Carbon Monoxide (CO) detection. For fire, the detector combines four separate sensing elements in one unit (smoke, CO, infrared, and heat) to sense multiple components of a fire. This approach has enhanced sensitivity to real fire with heightened immunity to nuisance particulate. For CO, the detector's electrochemical sensing cell creates a separate signal for the safety CO detection. When used together with our addressable sounder base, you can replace as many as four separate devices for a cleaner and more efficient installation.

Intelliquad™ – The Ultimate Multi-criteria Detector

The Intelliquad™ senses smoke particulates, carbon monoxide (CO), heat, and infrared signatures simultaneously to determine the presence of a fire condition. Sensor readings are continually evaluated against one another, allowing the detector to operate normally with high immunity to nuisance conditions, while quickly responding to true alarm events.

Accclimate™ – Self-optimizes, Senses Heat and Smoke

The Accclimate™ Plus detector combines thermal and photoelectric technologies into a single device. It constantly monitors ambient heat and particulate conditions, adjusting sensitivity parameters and alarm thresholds automatically to maximize detection across a broad range of fire types.

VIEW™ Laser Detector – Super Sensitive Spot-type Detector

The VIEW™ laser smoke sensor is programmable to be up to 100 times more sensitive than standard photoelectric smoke detection technology. VIEW™ is ideal for critical applications where even a trace of undetected smoke is unacceptable or where high air flows can make traditional smoke detectors ineffective.



Aspirating Smoke Detection – Early Warning in Challenging Environments

Intelligent Fire Alarm Aspirating Sensing Technology™ (FAAST) provides early warning of an impending fire hazard. FAST can buy time to investigate an alarm and initiate an appropriate response to prevent injury, property damage, or business disruption. With a wide sensitivity range and multi-level warnings, even minute levels of smoke can be detected before a fire has time to escalate. Connect the unit to the building's Ethernet portal to provide access and monitoring from anywhere in the world.

Fully Integrated Gas and Flame Detection

Around anywhere that people gather for work or leisure, indoors or out, there is a potential risk of exposure to toxic or flammable gases. Whether it is a school, library, office building, shopping center, evening past, manufacturing plant or warehouse, it is important to protect people, and to comply with legal requirements for gas monitoring. In addition to protecting building occupants, gas detection systems can also prevent untimely and costly business disruptions.



An Added Level of Protection

With over 60 years experience leading the fire alarm industry, NOTIFIER understands the safety. Hazardous and toxic gases are present in virtually every commercial environment and can threaten the safety of building occupants. That's why NOTIFIER offers a comprehensive suite of gas detection products for a wide range of commercial and industrial environments—all of which integrate seamlessly with our proven life safety systems.

Programmable Event Threshold Maximizes Flexibility

The FM-4-20 module is user-programmable for up to five different event thresholds, which are based on the concentration level of the gas being monitored. When the gas reaches a designated threshold, the FM-4-20 system responds by executing the appropriate pre-programmed response. Events can be individually tailored as any one of the following conditions: Fire, Security, Supervisory, Non-Fire Trouble, Pre-Alarm, Non-Fire, and Critical Process.

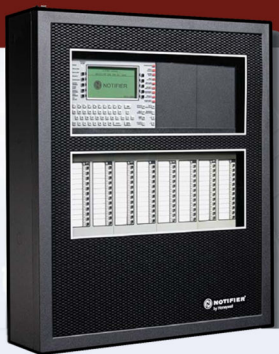
The Need for Flame Detection

While the use of heat and smoke detection covers many traditional applications, the addition of flame detection offers a higher level of protection in critical, high-risk and high-value installations. Honeywell's Fire Sentry series of flame detectors includes a broad offering of industry leading flame detection sensors, providing solutions for everything from safe areas to high and high-risk applications...and everything in between. Regardless of the area you're protecting - boiler rooms, paint booths, fuel storage / refueling facilities, gas and oil production facilities, or aircraft hangars - Honeywell's Fire Sentry series of flame detectors has the right product for the job.



NFS2-3030 – Sheer Power and Performance

The NFS2-3030, with its impressive point capacity and powerful programming options, is the complete solution for large scale applications requiring superior performance.



Customization:

The modular design of the NFS2-3030 allows authorized users to view and control the system from anywhere in the facility.

Capacity:

The NFS2-3030 supports over 3,000 intelligent devices on ten Signaling Line Circuits (SLCs) – perfect for protecting high-rises, large manufacturing plants, or multiple campus buildings with a single panel. When additional protection is required, the NFS2-3030 can be expanded with additional panels using NOTI-FIRE-NETTM, NOTIFIER's intelligent fire alarm network.

Features

- Up to 10 Signaling Line Circuits Style 4, 6 or 7
- Point Capacity: Up to 159 detectors and 159 modules per SLC
- Large 640-character LCD backlit display or displayless
- Networkable with NOTI-FIRE-NETTM, High Speed NOTI-FIRE-NETTM, and ONYXWorks® compatible up to 200 nodes for NFN
- Built-in Degraded Mode option.
- Include 9 levels of alarm and pre-alarm, cooperative sensing and self-optimizing pre-alarm
- Optional integrated Digital Voice Command (DVC)
- EIA-485 annunciators, including custom graphics
- Optional IP or GSM Communicator
- FM6320 approved gas detection system
- Listed for releasing

Applications

- Colleges and Universities
- Hospitals
- High-rise Buildings
- Hotels
- Airports
- Military Bases
- Stadiums

FIRE FIGHTING & SUPPRESSION SYSTEM

Control Panels



Addressable Fire Alarm Systems



Fire Reel & Cabinet



Clean Agent System



VALVES & INDICATOR POST



-GATE VALVES

-CHECK VALVES

-BUTTERFLY VALVES

-ANGLE VALVES

-BREECHING INLET

-HOSE BALL VALVES

-OBLIQUE LANDING VALVES

-STRAIGHT THROUGH LANDING VALVE

-PRESSURE REGULATING E-TYPE VALVE

-ZONE CONTROL VALVE

FIRE RATED DOORS & ROLLER SHUTTERS



ADVANCED SECTIONAL



Advanced performance door solution for applications where climate control, durability and ease of maintenance are primary concerns.

THERMACORE® DOORS



Premier insulated sectional steel door that is ideal for applications that demand the highest levels of thermal efficiency.

SECTIONAL STEEL



Comprehensive line of commercial sectional steel and insulated steel doors

ALUMINUM GLASS



An excellent solution for applications where visual access and light transmission are key considerations.

ADVANCED SERVICE



High cycles and faster speed of a high performance door with the security and durability of a rolling steel door.

ROLLING STEEL



Comprehensive line of rolling steel doors to meet your project specifications with ease and style.

FIRE-RATED DOORS



Wide array of rolling steel doors to demanding fire-safety standards and discerning aesthetic requirements.

SECURITY GRILLES



An array of attractive solutions for a wide variety of retail, commercial and industrial applications.

SECURITY SHUTTERS



Light door solutions that provide security for high pedestrian traffic areas such as retail stores, pharmacies and hospitals.

Beautiful | Security

VAULT & SECURITY
DOORS



RESIDENTIAL & COMMERCIAL SECURITY DOORS FROM





Inner strength

10 YEAR
GARUNTEE

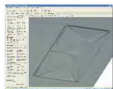
A Shield Security Door is certainly stylish to behold, but beneath the attractive exterior hides a formidable and impenetrable barrier.

All door models contain:

- Individually formed frames with stainless steel thresholds
- Specially formed metal door leaves
- Inset hinges with chrome-plated bearing caps
- Four 10mm protective pins for hinges
- Steel insulation walls
- Durable inside and outside finish
- Drilling resistant plates to protect locks



From an initial drawing by a client...



...the state-of-the-art design...

Custom-made security doors

Shield will design and build security doors to your exact specifications, even from your own designs if you wish.

Be it a heritage replica or a complete design, we use state-of-the-art 3D design and AutoCAD technology to turn your drawings into reality. We then bring your design to life using our high technology manufacturing plant.

All shapes and designs are manufactured to exacting standards. You don't compromise on style, we never compromise on quality or security.



Optional remote lock



Infinova®
The Integrator's Manufacturer



Infinova®

The Integrator's Manufacturer



Vdi®

Video Security, Inc.



SECUBEST



ANPR & UNDER VEHICLE SCANNING SYSTEM

ADAPTIVE RECOGNITION

Image Recognition Products for Traffic, Security, ID Data Entry Automation and Biometric Identification



RECOGNITION
CAMERAS & SENSORS



RECOGNITION
SOFTWARE



ID DOCUMENT READERS
& BIOMETRICS



RECOGNITION CAMERAS & SENSORS

RECOGNITION
SOFTWARE

IDENTITY
DOCUMENT
READERS &
BIOMETRICS



RECOGNITION CAMERAS & SENSORS

ARH ANPR/LPR CAMERAS

TYPICAL APPLICATIONS

ARH ANPR/LPR technology: CARMEN® and ARH imaging devices help you fight against unlawful activities, provide access, organize data in real time and make everyday life easier and safer through any traffic-related application. Some typical utilizations and benefits are described below.

INTELLIGENT TRAFFIC SYSTEMS

Toll collection
Integrating CARMEN® into open road systems allows automated toll collection in free flowing traffic.

Journey time measurement
CARMEN® can easily identify the same vehicle at two or more points on the road, which the system can use for calculating travel time and average travel speed.

Connection charging
CARMEN® allows automated identification and charging of city drivers as they enter or leave a payment area.

PARKING AND ACCESS CONTROL

Parking revenue systems
Integration of CARMEN® into any parking revenue system allows the setup of ticket-free systems with fully automated operation.

Access control
CARMEN® can be used to identify and verify whether a certain vehicle is authorized to access a restricted area.

Airport and harbour logistics
All vehicle plates and container codes can be identified by using CARMEN® to improve security and to reduce waiting time at the gates.

LAW ENFORCEMENT

Speed enforcement
By using instant speed measurement or section speed calculation between two or more points, CARMEN® and SpeedCam® can efficiently help identify speeding violations.

Bus lane – red light enforcement
CARMEN® is a highly efficient tool to help police stop vehicles driving in bus lanes or driving through red lights.

Traffic security monitoring
Fixed and mobile systems powered by CARMEN® ensure continuous monitoring of high traffic areas.

HOMELAND SECURITY AND COMMERCIAL VEHICLE MONITORING

Border control
Used at international border control points, CARMEN® provides an efficient solution in the fight against terrorism. By monitoring and registering traffic in diverse applications, CARMEN® and ARH cameras can be valuable tools helping to protect your country and to preserve national security.

Commercial vehicle applications
CARMEN® can effectively help commercial organizations in a large number of applications such as gas station payments, hotel check-ins, and weigh station systems. It can also serve as a great marketing tool that logs frequent customers or users.



RECOGNITION CAMERAS & SENSORS

THE ANPR/LPR PROCESS

WHAT IS ANPR/LPR?

Automatic Number Plate Recognition/License Plate Recognition (ANPR/LPR) is also known as Car Plate Recognition (CPR) or Automatic Vehicle Identification (AVI). ARH's flagship ANPR/LPR technology is CARMEN®.

ANPR/LPR is a traffic surveillance method based on optical character recognition (OCR). A specific OCR algorithm processes captured images or video footage to recognize the plate characters. ANPR/LPR can be implemented in any traffic-related application using either an existing CCTV camera system or dedicated ANPR/LPR cameras, which ensure high recognition rates and true 24/7 operation.

HOW DOES ANPR/LPR WORK IN PRACTICE?

The operation of any ANPR/LPR system can be divided into three main steps. It is important to highlight that CARMEN® ANPR/LPR technology consists of a fully adaptable solution that can be seamlessly integrated with any existing workflow.

1. Detection & image capturing
At the front end of any ANPR/LPR system there is a camera that captures images of the plates. The camera plays an important role in the ANPR/LPR process as the quality of the captured images highly determines the overall performance of the system. The best results are achieved by using specialized cameras designed for ANPR/LPR.
ARH offers a wide range of dedicated ANPR/LPR cameras that offers seamless compatibility to any ANPR/LPR system while boasting its capability to withstand every adverse environmental condition that may be encountered in the field.

2. Plate recognition

The main software aspect of any ANPR/LPR system is reading the plate text from the captured images.
The automated recognition is made of several steps, including image normalization and enhancement, detection of the vehicle plate and delineating of plate characters. The first step is taken by the OCR algorithm.

that recognizes the individual characters.

The CARMEN® ANPR/LPR is the world leader in ANPR software, and it's a result of over 22 years of continuous development. It facilitates country-independent recognition, reading of multiple plates from one image, color recognition, state or country identification, account-plate matching all of this at an extremely fast processing speed.

3. Data processing

Besides the characters of the vehicle plate, CARMEN® also returns plenty of additional information, such as an image with the recognized plate, the confidence level assigned to each character as well as the whole plate, the identified country or state code, along with plate colors and position. With all this information in hand, client can be quickly allowed or denied entry to restricted parking areas based on a pre-determined list. Law enforcement can also run the recognized plate against various national or international databases within seconds.

There are several possible difficulties that an ANPR/LPR system must be able to cope with. While most of the problems can be resolved by using advanced ANPR/LPR software, it is the primary task of the camera to solve some common challenges related to image capturing. Typical factors that pose difficulty for cameras in vehicle plate capturing are:

- high speed of vehicles may result in motion blur
- varying ambient light conditions (total darkness, direct sunlight or shadows)
- overexposure (due to sunlight or headlight glare)

ARH has always been a pioneer in designing advanced camera solutions that are specially developed for ANPR/LPR applications that significantly reduce these difficulties.

Easy installation, auto setup

The latest ARH cameras include auto setup functions making the proper adjustment very easy, even for users with no technical background. The built-in setup software is accessible via web browsers, through which adjustments can be made remotely at any time.

Day & night operation 24/7

High performance infrared (IR) LED illumination ensures capturing high quality images day and night. High MTF IR LEDs deliver an exceptionally long service period before any maintenance is required.

All weather conditions

The cameras are up to IP67 rated, feature vandalism proof housing, and are manufactured using industrial components to ensure that the cameras hold up even in extreme weather conditions.

IP connectivity, built-in processing unit

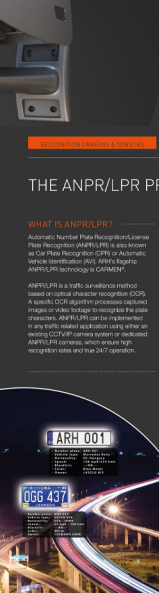
ARH offers a wide range of IP camera models for all types of ANPR/LPR applications. Some camera models have a built-in processing unit running the ANPR/LPR inside the camera. The recognized information can be easily transmitted over an Ethernet network.

Still images or MJPEG stream

The latest ARH cameras not only provide still images but also an MJPEG video stream to ensure easy integration with any DVR system.

Low power requirement

Low energy consumption helps to reduce system operating costs and protect the environment.



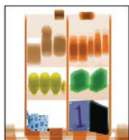
X-RAY BAGGAGE SCANNERS



Astrophysics Inc.

High Penetration Compact Screening

Checkpoint Security:
Mail and Small Parcel Inspection



6 Colour Imaging



Real-Time Diagnostics



Rapiscan[®] **s y s t e m s**

An OSI Systems Company



HANDHELD & WALKTHROUGH METAL DETECTORS

Garrett *Super Scanner® V*

Hand-Held Metal Detector

Made in the USA



Top View



Side View



Bottom View



Super Scanner V

Hand-Held Metal Detector
PN: 1165190

No tools required to change standard 9V battery (included).
Optional rechargeable battery kit available.

Three-color LED indication	Green LED = ON
	Amber LED = LOW BATTERY
	Red LED = ALARM
Operating Temperatures	-35° F (-37° C) to 158° F (70° C)
Width	3.25" (8.3 cm)
Thickness	1.625" (4.1 cm)
Length	16.5" (42 cm)
Total Weight	17.6 oz (500 g)
U.S. Trademarks	1,754,933 and 3,236,345
Battery Requirements	one 9V (included)
Warranty	2 Year, Limited Parts/Labor

Super Scanner® Accessories (sold separately)



Rechargeable Battery Kit
110V Part No. 1610200 (shown)
220V Part No. 1610800
Allows recharging without removing the battery. Includes environmentally friendly Cadmium free Ni-MH battery and charger.



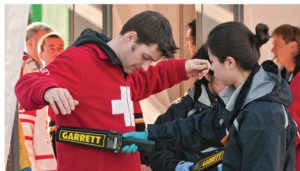
Earphone
Part No. 1600100



Leather Belt Loop Harness
Part No. 1600800



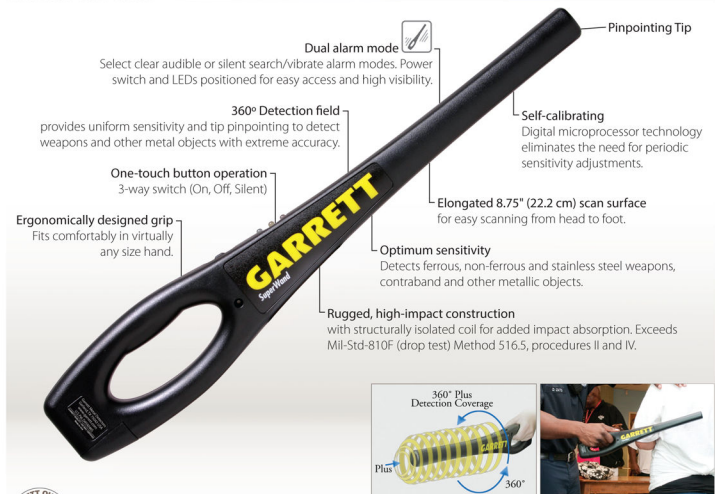
Belt Holder
Part No. 1611600
Made of durable ballistic weave material. Can be worn on a belt or can be mounted in a car.



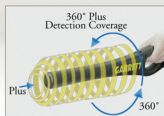
Garrett SuperWand™

Hand-Held Metal Detector

Made in the USA 



Look for the mark
of Garrett quality



SUPERWAND Accessories (sold separately)

No tools required to change standard 9V battery (included).

Three-color LED indication Green LED = ON
 Amber LED = LOW BATTERY
 Red LED = ALARM

Operating Temperatures -35° F (-37° C) to 158° F (70° C)

Width 3.25" (8.3 cm)

Thickness 1.25" (3.2 cm)

Length 19" (48.3 cm)

Total Weight 18.6 oz (53 kg)

U.S. Patent No. D459,246 S

Battery Requirements one 9V (included)

Warranty 2 Year, Limited Parts/Labor



Rechargeable Battery Kit

110V Part No. 1612000

220V Part No. 1612100

Includes two (2) environmentally friendly
Cadmium-free Ni-MH batteries and charger.



Belt Holster

Part No. 1620300

Made with durable ballistic weave material
and can be belt mounted.

Garrett PD 6500i[®]

Enhanced Pinpoint Walk-Through Metal Detector

Made in the USA 

Multi-brand compatibility

Can be added to existing checkpoints without having to replace other brand units. Includes multiple channels and 2,300 selectable operating frequencies.

Optimum Performance

More than 20 standard program settings scientifically engineered to address the needs of airports, courthouses, prisons, schools, facilities, special events, mass transit, loss prevention, and other applications.



Pacing lights

Universal "wait" and "proceed" symbols at the detector entrance for traffic controls.

Advanced networking (optional)

Manage walkthroughs individually or as groups and perform statistical analysis via network with CMA interface module. Supervisors can remotely access controls, visual alarms and statistics.

Directional counter

Four settings for counting patrons: forward only, reverse only, subtract in reverse, and bidirectional.

PD 6500i[™]

Walk-Through Metal Detector

U.S. / INTERNATIONAL

(shown) Gray PN 1168414 / 1168424*

★ Advanced broadband technology

Analyzes targets across a broad range of frequencies for greater accuracy. Provides superior ferrous and non-ferrous detection. Improved discrimination means fewer false alarms and higher throughput.

★ More accurate pinpointing

With more than four times the detection coils of competitive models, the PD 6500i provides uniform detection and precise pinpointing. Independent zone indicator lights on both side panels identify not only height but also left, center and right locations for one or more objects passing through the archway.

★ Dual-sided detection

This unique bilateral technology has transmitters and receivers in each side panel to allow scanning from both sides, resulting in uniform detection throughout the archway. It also provides superior noise cancellation resulting in easier setup (i.e. no need to rotate the unit to avoid interference from nearby equipment such as other metal detectors or x-ray machines).

Superior versatility

Menu based settings for feature selection such as alarm indication, count method, and language without the use of a computer. Field programmable to allow system upgrades. Multiple units can be installed as close as 2 inches.

International security standards

PD 6500i meets the world's highest test certifications, including the following international airports:



OPTIONAL accessory items for the PD 6500i can be seen at www.garrett.com.

* Includes Euro Plug.

Tamper-proof

All settings are secured with a key lock and two levels of access codes. Further security is accomplished with a cabinet lock that prevents unauthorized access to physical cables, connectors and electronics.

Easy assembly

The PD 6500i's modular design allows for a quick and simple assembly of its four (4) sub assemblies using only eight (8) screws and three (3) internal cable connections.

Digital Signal Processor (DSP) based technology

DSP provides greater sensitivity, noise immunity, discrimination, detection uniformity, and overall product reliability.

Regulatory Information: The PD 6500i meets U.S. and international regulatory requirements for electromagnetic safety. Extensive research has found no information that would indicate Garrett products have adverse effects on pregnancy, medical devices (such as pacemakers) or magnetic recording media. However, directives by physicians and medical device manufacturers regarding metal detectors should be followed.
1554400 REV K, March 2014 © 2014 Garrett Electronics, Inc.

MAXXESS

EMPOWERING PEOPLE.
TRANSFORMING SECURITY.



MAXXESS

eFusion

ambit

PARKING MANAGEMENT SYSTEM



About us

ParkSol driver information and parking guidance system is designed to help users easily search for a parking space quickly and efficiently, resulting in significant energy efficiency. From the moment driver enters the parking lot, the system automatically performs the guidance of the vehicle. This system tells the driver the directions to where to find a free parking space.

With **ParkSol**, parking facilities can now ensure maximum occupancy. The occupancy of each parking space is constantly monitored via an ultrasonic or magnetic sensor. This information is coordinated with the help of data concentrators, and is sent to a facility's system computer where the **ParkSol** software accurately directs vehicles to areas of vacant parking spaces.

Parking guidance is performed using information boards with direction indicators to the nearest vacancies. The system also allows the user to analyze occupancy levels in different periods of time and thereby make decisions that improve the operation of the parking lot.



ParkSol Guidance System

- Instantly pinpoints available parking spaces;
- Improves parking efficiency till 30 %;
- Ensures a pleasurable and stress free parking experience;
- Allows owners to control parking load, reduces illegally parked vehicles;
- Maximises parking profitability and revenues.

Ultrasonic sensor with indication

The ultrasonic sensor is designed for installation on the ceiling or a cable channel and directing the availability of a parking space. It is recommended for covered parking lots. All ParkSol sensors have the digital signal processing (DSP), adaptive sensitivity and temperature compensation functions. The sensor transmits the parking space availability information in real time to the ParkSol system. The system represents the number of free parking spaces on LED screens.



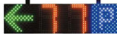
Magnetic sensor

The ParkSol magnetic sensor is designed for installation on road surfaces and detecting the availability of a parking space for parking without roofs. The sensor responds to changes in the earth's magnetic field when a vehicle is parked above it. All ParkSol sensors have the digital signal processing (DSP), adaptive sensitivity and temperature compensation functions. The sensor transmits the parking space availability information in real time to the ParkSol system. The system represents the number of the parking spaces on LED screens.



LED display

ParkSol reflector screen displays the available parking spaces in a parking lot area or a level. The driver can decide in advance where to go to. The screen receives information in real time about the parking spaces from the ParkSol system or communication equipment. The screen design includes custom solutions are available, too - integration to road signs, large screen of advertisements, advertising signage.



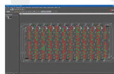
Zone controller

The controller PC/CC is designed for the real-time monitoring of ParkSol sensor parameters. The sensors are connected via the RS-485 interface. The device may have up to 128 magnetic or ultrasonic sensors. Controllers are interconnected over a 100 Mbit network. The device operates as a separate 5-port hub, so there can be connected in series, one after the other. The controller has 8 freely programmable inputs and 8 outputs and can be connected to the other parking control system. The PC/CC modification has a user viewing function.



Monitoring software AIPAS v2.0.0.2

AIPAS monitoring program for parking managers made more efficient use of the parking space, and reduction of traffic jams. It enables real-time monitoring of the parking situation (availability, temperature changes), and control of parking places (time restrictions). The program can connect to other control systems (barriers, lighting, ventilation). The program is installed in the user's viewing system or in a separate server.



FAAC

GATE'S AUTOMATION AND BARRIERS

ENTRANCES & AUTOMATIC DOORS

MOTORS FOR SHUTTERS AND SWINGS



AUTOMATION FOR EXTERNAL
CLOSING SYSTEMS, DOORS,
WINDOWS AND SHUTTERS



URMET IS IN YOUR LIFE

HIGH SECURITY GATE AUTOMATION SYSTEM

(CRASH RATED BOLLARDS & ROAD
BLOCKERS)





Avon Barrier



Avon High Security - PAS68 Crash Tested Road Blockers, Barriers, Bollards & Gates



ASTM F2656-07 Road Blockers | RB1000CR Centurian Road Blockers



PA568 Security Road Blockers



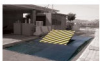
K4 High Security Road Blocker



PA568 High Security Shallow Roadblockers



K4 High Security Shallow Road Blocker



PA568 High Security Surface Road Blockers



PA568 High Security Bollards



PA568 High Security Barriers



Avon Cedar Gate



PA568 High Impact Security Sliding Gates



High Impact High Security Sliding Gates



PAS 68 Bollards | Static Bollards | Scimitar Bollards



PA568 High Impact Hinged Security Gates



Avon Resilience SSF100 Static Bollard



Garrison Ballistic Protection Gate

PHYSICAL SECURITY INFORMATION MANAGEMENT SYSTEM



ABOUT CNL SOFTWARE

CNL SOFTWARE IS A WORLD LEADER AND GLOBAL PROVIDER OF PHYSICAL SECURITY INFORMATION MANAGEMENT (PSIM) SOFTWARE, DESIGNED FOR COMPLETE INTEGRATED SITUATION MANAGEMENT. OUR AWARD WINNING PSIM TECHNOLOGY IS DEPLOYED TO SECURE MAJOR CITIES, CRITICAL INFRASTRUCTURE AND GLOBAL COMMERCE.

CNL SOFTWARE'S SOLUTIONS SIT AT THE HEART OF SOME OF THE LARGEST, MOST COMPLEX AND GROUND-BREAKING PSIM INTEGRATION PROJECTS IN THE WORLD. OUR WORK WITH LEADING ORGANIZATIONS IS HELPING TO SHAPE THE FUTURE OF SECURITY BY OFFERING THOUGHT LEADERSHIP ON KEY ISSUES SUCH AS ASSET PROTECTION, ENERGY REDUCTION, PROCESS COMPLIANCE AND BUSINESS ADVANTAGE IN CONVERGED PHYSICAL ENVIRONMENTS.

AS THE DEVELOPER OF THE IPSECURITYCENTER™ PSIM SOLUTION, WE TOOK A TRIED AND TESTED IT BASED APPROACH TO SECURITY INTEGRATION. WE BUILT A 'COMMERCIAL OFF THE SHELF' (COTS) DEVELOPMENT SUITE THAT ALLOWS THE CREATION OF CUSTOMIZED COMMAND AND CONTROL SUITES AT A FRACTION OF THE TIME AND COST OF BESPOKE SOLUTIONS.

BY THE ADDITION OF A STRONG WORKFLOW ENGINE, WE CAN INTEGRATE MOST SECURITY APPLICATIONS AND ADD COMPLIANCE, CONVERGENCE AND SITUATIONAL AWARENESS TO THE RESULTING SOLUTION. THIS HIGHLY SCALABLE PSIM SOLUTION WORKS IN CITY CENTER CCTV OPERATIONS, LARGE ENTERPRISE SECURITY APPLICATIONS, POWER STATIONS, AND OIL REFINERIES TO NAME A FEW, MANAGING ALL THE SECURITY ASSETS ACCORDING TO THE SECURITY POLICY REQUIRED.

TOGETHER WITH OUR DELIVERY PARTNERS, WE HAVE DEVELOPED AND DEPLOYED SOME OF THE MOST INNOVATIVE, FORWARD THINKING PSIM SOLUTIONS TO CONTROL ROOMS AROUND THE GLOBE.

SOLAR RENEWABLE ENERGY SYSTEM



*Modular Carports for Power Generation
Park@Sol*





2

Use Real Estate Wisely Park@Sol®



We put our 40 years of experience in the design and manufacturing of steel and aluminum products behind the development of Park@Sol, engineering the most versatile and economic photovoltaic (PV) mounting system on the market.

New Usable Surfaces for Solar Energy

Increasing fuel costs, compulsory environmental certifications and desire for an environmental friendly image are the new realities of business. Consequently, solar PV plants on company roofs are in demand. But in many cases, the roof surface areas are too small or weak to support a PV system. Or, in some cases, roof and ground mounted systems are seen as too costly or complex a project for the business or home owner to undertake.

Solar carports offer simplified and economic alternatives in answer to such concerns, while offering a multipurpose structure.

These systems have a well established history in Europe and North America, on a scale of several hundred megawatts (MW) of installed PV systems for both commercial and residential applications.



LIGHTING CONTROL SYSTEM



ABB i-bus[®] KNX Application Manual Lighting

Power and productivity
for a better world™



EMERGENCY LIGHTING & CENTRAL BATTERY SYSTEMS



ASM Linking schemas

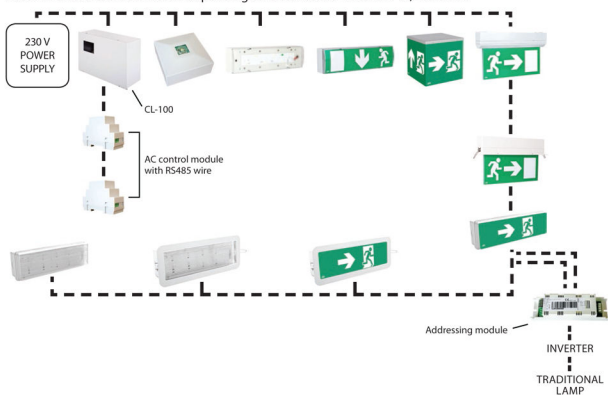
Schema for traditional emergency and exit showing lights with separate battery.

Recommended cable diameters depending on distance are $3 \times 1.5 \text{ mm}^2$ or $3 \times 2.5 \text{ mm}^2$



Schema for addressable emergency and exit showing lights with separate battery.

Recommended cable diameters depending on distance are $4 \times 1.5 \text{ mm}^2$ or $4 \times 2.5 \text{ mm}^2$



UPS SYSTEM

APC®

by Schneider Electric



APC SMT750I - APC Smart-UPS 750VA

APC Smart-UPS, SMT750I - 500 Watts / 750 VA, Input 230V / Output 230V, Interface...



APC SMT1000I - APC Smart-UPS 1000VA

APC Smart-UPS, 700 Watts / 1000 VA, Input 230V / Output 230V, Interface Port Smt...



APC SMT1500I - APC Smart-UPS 1500

APC Smart-UPS, 1000 Watts / 1500 VA, Input 230V / Output 230V, Interface Port S...



APC SMT2200I - APC Smart-UPS 2200VA

APC Smart-UPS, 1980 Watts / 2200 VA, Input 230V / Output 230V, Interface Port S...



APC BK650EI - APC Back-UPS 500VA

APC Back-UPS, 300 Watts / 500 VA, Input 230V / Output 230V, Interface Port USB...



APC BK650EI - APC Back-UPS 650VA

APC Back-UPS, 400 Watts / 650 VA, Input 230V / Output 230V, Interface Port DB-9...



APC SC420I - APC Smart-UPS 420VA

APC Smart-UPS, 260 Watts / 420 VA, Input 230V / Output 230V, Interface Port DB-



APC SC1500I - APC Smart-UPS SC 1500VA

The Smart-UPS SC is an entry level UPS for low power network and point-of-sale (...)



APC SMT1500RM12U - Rackmount Smart-UPS

APC Smart-UPS, 1000 Watts / 1500 VA, Input 230V / Output 230V, Interface Port R...



APC SMT2200RM12U - Rackmount Smart-UPS

APC Smart-UPS, 1980 Watts / 2200 VA, Input 230V / Output 230V, Interface Port U...



APC SMT3000RM12U - Rackmount Smart-UPS

APC Smart-UPS, 2700 Watts / 3000 VA, Input 230V / Output 230V, Interface Port U...



SUA3000RMXL13U - APC UPS

APC Smart-UPS, 2700 Watts / 3000 VA, Input 230V / Output 230V, Interface Port D...

BUILDING AUTOMATION & MANAGEMENT SYSTEM



THE CHALLENGER IN BUILDING AUTOMATION



Regin Systems

Energy-efficient solutions for Building Automation



HOTEL GUEST ROOM MANAGEMENT SYSTEM

Power and productivity
for a better world™



ABB KNX solutions for hotel applications
Solutions designed for an interconnected
and safe tomorrow

General features

MYLOS



Transponder reader



Transponder holder



Transponder programming device



Transponder reader with POS function



ÉLOS



Transponder reader



Transponder holder



Transponder programming device



Transponder reader with POS function

Chiara



Transponder reader



Transponder holder



Transponder programming device



Transponder reader with POS function

- 2 relay outputs 8 A, 250 V.
Functions: ON/OFF (e.g. electric lock control), staircase lighting, ON/OFF delay (e.g. courtesy light).
- 3 binary inputs.
Functions:
 - ON/OFF;
 - shutters (using two grouped inputs).
- 17 available KNX communication objects.

- Programming:
 - via ETS and MiniMAC software for KNX bus solutions;
 - with special cards (MASTER TAG) for stand-alone solutions.
- Supplementary power supply (10...32 Vdc / 12...24 Vac).
- Installation in rectangular three-module flush-mounting box (Italian standard).
- Device versions available for all ABB wiring accessories series (Mylos, Élos, Chiara).

Access control

The **transponder reader** is the basic component of the access control system; it is installed outside rooms and other areas with restricted access. Swiping the appropriate card over the reader (equipped with an electronic circuit that transmits the unique access code) allows or denies access in relation to the authorization level. Like all ABB's range of access control devices, the transponder reader is equipped with three binary inputs and two relays: one is used to open the door, while the other can activate the courtesy light for a programmable time.



Digital cash and access control

Thanks to a **transponder reader with digital cash function (POS)**, a single card can be used to manage both access control and payment for services, such as parking, fitness and wellness centers, etc., by credit card or prepaid card modality. This makes it possible to simplify the procedures and to authorize access to services only upon payment of the corresponding fee. Each device can be set to distinguish up to four user types, associating a specific fee to each.



Card programming

Transponder card programming and device configuration can be performed from the front desk or from another location where a programmer module is installed, connected to a PC running ABB's Minimac access control supervisor software. To make programming/cancellation operations easier, the transponder programming device is equipped with four LEDs that allow the operator to immediately view the status of the operation being performed.



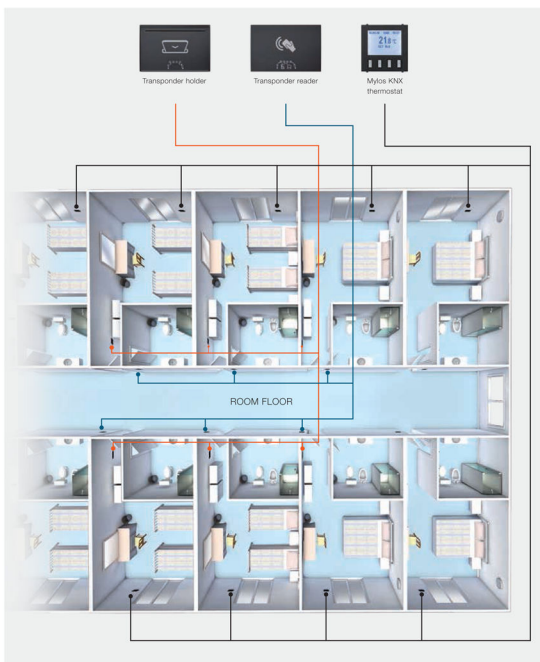
Occupancy detection

The **transponder holder**, for flush-mounting inside the room, is equipped with a slot in which the guest can insert the card upon entering the room. Thus, in addition to controlling activation of the room electrical devices (lighting, air conditioning, TV, etc.), room occupancy is notified at supervisor level (e.g. supervisor software installed on front desk PCs). Using master cards inserted in the transponder holder slot, hotel staff can notify the room status (room cleaning, minibar restocking required, maintenance request, unusable room) to the front desk PC (via the same supervisor software).



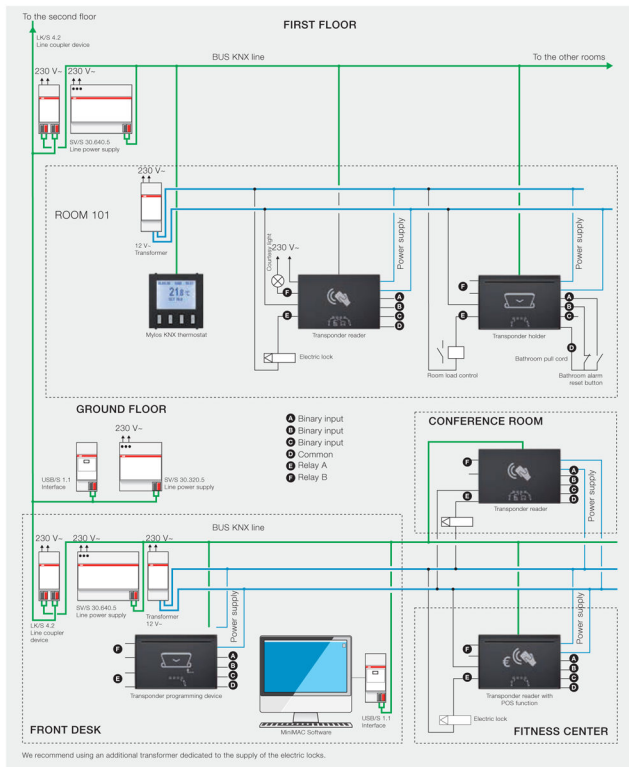
Access control in hotel applications

Placement of guest room floor devices



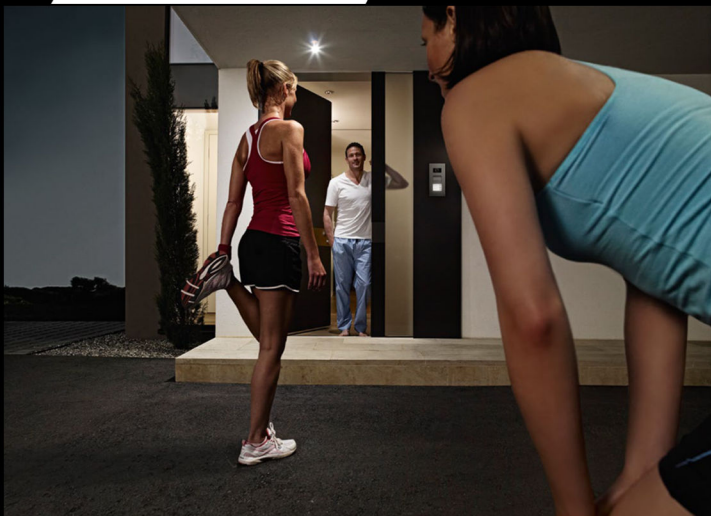
Access control in hotel applications

Example of a components connection diagram



HOME AUTOMATION SYSTEM

Power and productivity
for a better world™



Door Communication

A new home experience
ABB-Welcome

Intuitive operation.

Understandable symbols for the basic functions.

**Door opener**

Opens the electric door lock. Button is illuminated at an incoming call and also signals the door call visually. After pressing the button it lights up green for five seconds.

**Light**

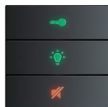
For directly switching on the hall light. After pressing the button the symbol lights up green for five seconds.

**Mute function**

Switches off the microphone of the indoor station during a conversation. To prevent the visitor at the front door from listening in. It can also be used to switch off the bell. The bell switches back on automatically after 10 hours. The symbol lights up red during the off period.

Functional design.

Easy to read and clear to the eye. The easy operation keys with illuminated symbols show which key is currently active. Very practical, especially in the dark.



As easy as saying hello. The ease with which the indoor station can be operated is due to its design. This makes one familiar with the device already at the first contact - whether resident or guest.



01

02

03



04

05

06



07

08

09

01 ABB-Welcome video outdoor station, 1/2/3gang

02 ABB-Welcome video outdoor station, 4/6gang

03 ABB-Welcome video outdoor station, 8/12gang

04 ABB-Welcome audio outdoor station, 1/2/3gang

05 ABB-Welcome audio outdoor station, 4/6gang

06 ABB-Welcome audio outdoor station, 10/15gang

07 ABB-WelcomeTouch

08 ABB-Welcome indoor audio station with handset

09 ABB-Welcome indoor audio station with display



10 Busch-ComfortTouch®

WIRING ACCESSORIES

Power and productivity
for a better world™

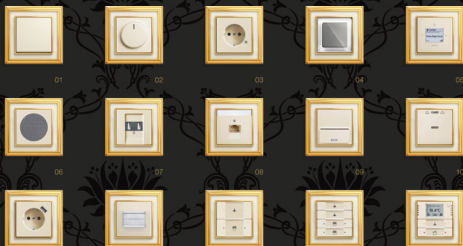


LUXURY DESIGNS TO FIT YOUR HOME

DIMENSION: 106 x 177 MM



DIMENSION: 106 x 106 MM



DATACENTER INFRASTRUCTURE

AVAYA *Engage* The Power of We™



BREAK THE OLD NETWORK RULES AND MAKE NEW ONES THAT ADAPT TO YOUR BUSINESS NEEDS

THE ADVANCED TECHNOLOGIES IN THE AVAYA VIRTUAL ENTERPRISE NETWORK ARCHITECTURE (VENA) TRANSFORM DATA CENTER COMPONENTS INTO A DYNAMIC, SELF-AWARE SOLUTION THAT MITIGATES LATENCY AND PERFORMANCE BOTTLENECKS AND PROMOTES AGILITY AND ENHANCED TIME TO SERVICE.

BUSINESSES CAN SELECTIVELY COMBINE THESE TECHNOLOGIES AND DATA CENTER VIRTUALIZATION TO CREATE A MORE AGILE DATA CENTER. DISTRIBUTED TOP-OF-RACK TECHNOLOGY OPTIMIZES SERVER-TO-SERVER FLOWS, IMPROVING APPLICATION PERFORMANCE AND REDUCING INFRASTRUCTURE COSTS. AVAYA FABRIC CONNECT IS AN END-TO-END NETWORK VIRTUALIZATION CAPABILITY THAT ENABLES FLEXIBLE NETWORK DESIGN AND ENHANCES TIME TO SERVICE. AND OUR SWITCH CLUSTER TECHNOLOGY DELIVERS ACTIVE-ACTIVE NETWORK ACCESS, IMPROVING APPLICATION AVAILABILITY AND MAXIMIZING RESOURCE UTILIZATION.

1. LET IT OPERATE AT THE SPEED OF BUSINESS WITH DATA CENTER VIRTUALIZATION

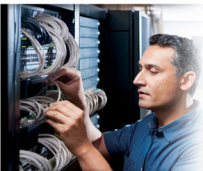
DEPLOYING AVAYA VENA DATA CENTER VIRTUALIZATION SOLUTIONS TRANSFORMS YOUR NETWORK INTO AN AGILE, DYNAMIC RESOURCE THAT READILY ADAPTS TO BUSINESS REQUIREMENTS AND EXPECTATIONS.

2. SWAP OPERATIONAL BURDEN FOR INNOVATION

SIMPLIFYING NETWORK DESIGN AND DEPLOYMENT REDUCES THE BURDEN OF OPERATIONS, RELEASING IT TO FOCUS ON TAKING THE BUSINESS FORWARD.

3. ENJOY SAYING "YES."

EMPOWER IT WITH RICH NETWORKING CAPABILITIES THAT DELIVER FLEXIBILITY AND EMPOWER FASTER TIME TO SERVICE.



AVAYA VENA FABRIC CONNECT

BASED ON AN ENHANCED IMPLEMENTATION OF THE SHORTEST PATH BRIDGING STANDARD, OUR FABRIC CONNECT TECHNOLOGY SIMPLIFIES NETWORKS SO YOU CAN PROVISION RESOURCES AND SERVICES QUICKLY AND EFFICIENTLY. FABRIC CONNECT HELPS YOU DELIVER MULTIPLE SERVICES USING THE MOST ADVANCED NETWORK VIRTUALIZATION TECHNOLOGY. IT ELIMINATES COMPLEX, RIGID TOPOLOGIES AND INTRODUCES NEW CAPABILITIES IN SIMPLICITY, SCALABILITY, PERFORMANCE, RELIABILITY, AND SERVICE ORCHESTRATION AND ABSTRACTION.

AVAYA VENA DISTRIBUTED TOP-OF-RACK

THIS TECHNOLOGY EXPEDITES TRAFFIC FLOWS BETWEEN SERVERS LOCATED IN THE SAME AISLE, AND NOT JUST IN THE SAME RACK. IT OPTIMIZES APPLICATION PERFORMANCE BY SWITCHING LOCAL TRAFFIC LOCALLY VIA DEDICATED HIGH-SPEED INTERCONNECTS. AVAILABLE IN TWO OPERATIONAL MODES, IT DELIVERS DEVICE SCALABILITY UP TO 200 SWITCHES, SUPPORTING UP TO 6,400 PORTS OF 10 GIGABIT ETHERNET, AND VIRTUAL BACKPLANE SCALABILITY UP TO 112Tbps.



AVAYA VENA SWITCH CLUSTER

THIS UNIQUE TECHNOLOGY LEVERAGES AVAYA'S SPLIT MULTI-LINK TRUNKING PROTOCOL AND IS FULLY INTEROPERABLE WITH THIRD-PARTY SWITCHES, ROUTERS, SERVERS, AND APPLIANCES. SOLUTIONS BUILT WITH SWITCH CLUSTER TECHNOLOGY PROVIDE RESILIENT ACTIVE-ACTIVE CONNECTIONS, MAINTAIN HIGH-AVAILABILITY, AND OPTIMIZE RESOURCES.



Simplify Your Data Center

Integrate computing, storage, networking, virtualization, and management into a single platform with Cisco Unified Data Center. Gain operational simplicity and business agility essential for best-in-class cloud computing and IT as a service.

Deploy Applications Faster

Simplify data center operations, accelerate deployment, and reduce costs with the Cisco Unified Computing System, the smart, innovative fabric computing infrastructure. Run applications faster in bare-metal, virtualized, and cloud computing environments. Fund your future by managing operations efficiently today.



Deliver Consistent Networking

Provide foundational connectivity by unifying storage, data networking, and network services with Cisco Unified Fabric. Deliver architectural flexibility and consistent networking across physical, virtual, and cloud environments. Help enable convergence, network scale, virtualization awareness, and intelligence with the industry-leading Cisco NX-OS.

Automate Your Processes

Optimize your processes with an intelligent, automated approach to IT management. Achieve faster deployment and enterprise-grade reliability, while simplifying the deployment and operation of physical and bare-metal machines, virtual servers, and cloud infrastructure. Implement Cisco Unified Management for efficient end-to-end management.

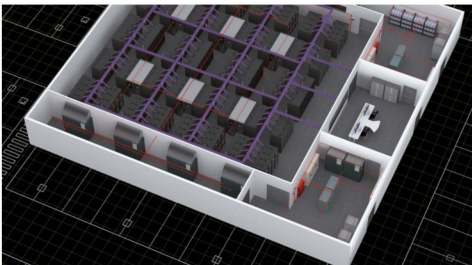


Select
Partner



Gesab

360° Data Center Audit



The smallest detail can be the most important for your data center.

In GESAB have a comprehensive view of projects. From engineering to conceptualization. From conceptualization to execution of the full project

We apply a rigorous methodology and procedures for each of the phases of the overall process

We conducted an analysis of the current situation

We talk with our customers to identify opportunities for expansion and growth, space or limitations

We made a diagnosis

We propose the best solutions for your data center

Raised Floor Solutions



Metaldeck Steel Decking is a specialist floor deck contractor and an approved supplier and installer of Kingspan Multideck

Steel Decking



Metcon Concrete Floors designs, supplies and installs concrete flooring on all types of steel decking floor systems

Concrete Floors



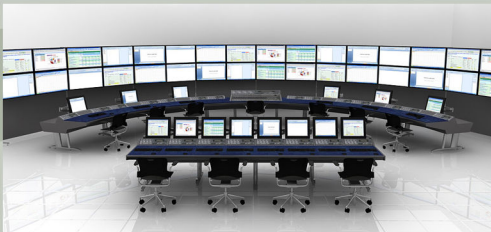
Access Flooring designs, supplies and installs raised access floor systems and is an approved Tier 1 Kingspan Contractor

Access Floors



lundhalsey
Control Room Solutions

Lund Halsey are the market leaders in the design and manufacture of technical furniture, providing the definitive solution for Oil & Gas Control Rooms, Industrial Control Rooms, Air Traffic Control, Broadcast Studio and Surveillance.



Lund Halsey has over 30 years experience in design and manufacturing of specialist Control Room Furniture.

Our philosophy and commitment, to deliver quality products on time, meeting strict customer deadlines is the company strength setting us apart from our competitors.

With the latest 3D modelling software and CNC manufacture backed by a highly skilled team Lund Halsey can satisfy customer requirements on time and to budget.

Modern materials including composites, aluminium, corian, and steel are combined with traditional materials to provide the form, function and style according to each customer requirement.

Our Centra and e-Type modular furniture ranges offer comprehensive solutions, along with our bespoke design and manufacture service, ensuring we satisfy the demands of all our clients!

Free Design Service

One of the major considerations for Control Room Furniture is "what do we require as far as numbers of screens, operators and equipment to be fitted?" and not necessarily how is this all going to fit together in an ergonomic and efficient way.

Lund Halsey take that problem away from their customers, we assess the requirement in line with ISO 11064 guide lines and from this assessment produce 3D AutoCad drawings. When the customer has approved this initial design, we then produce coloured renders and if required, animations in the chosen finishes allowing the customer to visualise the solution we offer.

ACTIVE NETWORKING SYSTEM (WIRED & WIRELESS)



Networking Software Systems

IOS

- Integrates technology, business services, and hardware support
- Reduces operational spending
- Optimizes return on investment
- Improves business productivity

IOS XE

- Supports next-generation platforms
- Runs as a single daemon within a modern Linux operating system
- Separates the data plane and control plane
- Improved services integration

IOS XR

- Focuses on the needs of service providers
- Designed for the dynamic network usage requirements of services
- Flexible programmability for dynamic reconfiguration

NX-OS

- Open, modular and programmable for an agile data center infrastructure
- Optimized for both physical and virtual data center deployments
- Highly reliable continuous system operation, optimizing uptime

Core Technologies

Application Centric Infrastructure (ACI)

Cisco ACI is a comprehensive software-defined networking (SDN) architecture that automates IT tasks, accelerates data center application deployments, and significantly reduces TCO.

Cisco ONE Software

Cisco ONE Software is a valuable and flexible way to buy software for your data center, WAN, and access domains.

Virtual Extensible LAN (VXLAN) Border Gateway Protocol (BGP) or Ethernet VPN (EVPN)

Get standards based-control protocol for VXLAN, helping to enable cloud scalability and multivendor interoperability.

IPv6

IPv6 expands the number of network address bits from 32 bits (in IPv4) to 128 bits, which provides more than enough globally unique IP addresses for every networked device on the planet.

Fibre Channel over Ethernet (FCoE)

Converge data Ethernet traffic and Fibre Channel (FC) traffic over a single Ethernet wire.

Locator/ID Separation Protocol (LISP)

LISP is a routing architecture that provides new semantics for IP addressing.



Select
Partner

AVAYA *Engage* The Power of We™

A Wireless LAN Solution Delivering What Matters Most: a High-Quality User Experience

- **Deliver wired-like performance and predictability to your mobile users with our Wireless LAN 9100**, which puts your business-critical application needs first.
- **Get application-level visibility and control** to help ensure your wireless network delivers uncompromised access to the applications and services your users value most—and is not crippled by bandwidth-hogging personal applications.
- **Protect your investment with an upgradeable wireless solution that is robust and simple to operate.** Meet changing business requirements and accommodate inevitable increases in capacity demands.
- **Reduce your equipment requirements and costs.** Our integrated architecture helps ensure that everything you need for a high-performance wireless LAN is built into each wireless access point.
- **Increase productivity and effectiveness.** Wireless done right can be a strategic IT advantage that enables your employees to do more than ever before.

• Take Control with Application Control

Deliver predictable application performance to your mobile users, even under heavy network load, by prioritizing critical applications, restricting usage of bandwidth-heavy applications, and blocking restricted applications from the network.

• Advanced Radio Frequency (RF) Management

Improve the user experience by maximizing your use of RF resources. Whether you require roaming assistance for sticky clients, Bonjour optimization, load balancing across radios, or HoneyPot support, the latest wireless LAN capabilities will let you optimize your wireless spectrum.

• Keep Up With Business Growth

Future proof your network with a technology upgrade path to 802.11ac and other wireless technologies—without replacing any equipment.



High-Performance Indoor Access Points

Designed for ease of deployment, these Indoor Access Points with integrated controllers deliver superior flexibility and performance for low to medium density user needs. Ideal for office spaces, classrooms, hotel rooms, and similar applications, these Access Points have two radios with omni-directional antennas. Indoor APs include 802.11n and 802.11ac APs (2x2 and 3x3 MIMO options).



High-Performance Outdoor Access Points

Built to withstand harsh outdoor weather or the most grueling environmental conditions, the outdoor Wireless LAN Access Point 9122 lets you extend wireless coverage outdoors. The dual radio, 802.11n Access Point comes with two lightning-protected RP-TNC style connectors, integrated wireless controller, and application-level intelligence. The unique case design protects the Access Point electronics from rain, heat, cold, direct sun, and wind.



Wireless LAN Orchestration Management System

The Orchestration System provides everything needed to manage your wireless solution. Administrators can perform pre- and post-deployment planning, configuration, verification, management, and optimization of the Wireless LAN 9100 Series infrastructure.

TELECOM & INFRASTRUCTURE SYSTEMS (PHYSICAL LAYER)

PANDUIT® PHYSICAL INFRASTRUCTURE SYSTEMS

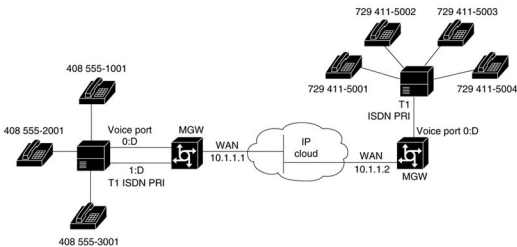
SOLUTIONS ROADMAP

From the data center to the work area to building systems and the factory floor, Panduit delivers comprehensive solutions that optimize the reliability, availability, security, integration, and safety of the physical infrastructure. Through robust, innovative systems designed for intelligent deployment and convergence, Panduit solutions help mitigate risk factors across IT, facilities, operations, and manufacturing to achieve business efficiencies with lower total cost of ownership.



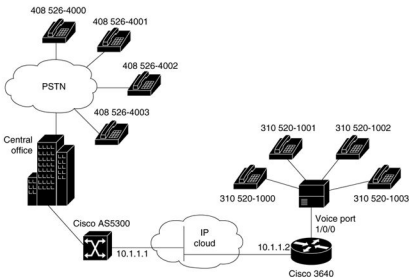


VoIP Used as a Central-Site Telephony Termination Facility



- To provide Public Switched Telephone Network (PSTN) gateway functionality for Internet telephone traffic. Cisco VoIP used in this scenario leverages the standardized use of H.323-based Internet telephone client applications. In the case of a device with extensive capacity running VoIP (such as the Cisco AS5800 universal access server), the functionality provided is equivalent to that of a carrier-class switch.

VoIP Used as a PSTN Gateway for Internet Telephone Traffic



INTERCOM SYSTEM

FERMAX

BUILDING COMMUNICATIONS



FERMAX



SMATV & IPTV SYSTEM

BLANKOM®

IPTV Operator - MSO, Telcos, Cable TV operators

Being able to address the individual needs of your clients allows you to open new revenue streams without heavy investments. Centrally manageable, the system scales up to 1 Million users. Subscribers can create their own channel and contact lists. IPTV Operator supports expected features of such a system. Locally or centrally stored scheduled recordings for Catch-Up TV, Time-Shift etc are possible and the implementation of DRM and encryption ensures to secure your recorded content.



High Quality IP-Streamer

The high-quality IP streamers are the core of every IPTV system, which converts IP compliant data streams from a variety of input signals (DVB-S/S2, DVB-T, ASI, SDI/HD-SDI, HDMI, A/V).

Key features of the professional IP streamers are powerful GigE ports for streaming and a separate management and signal interface.



PUBLIC ADDRESS & VOICE ALARM SYSTEM



The Guide of Sound



Le son en toute sérénité



VOICE ALARM



SPEAKERS



POWER



SOURCES



INTERCOMMUNICATION



MATRIXES



RACK CABINETS & ACCESSORIES



CORDS



SOFTWARE

**SERENITY VOICE - Rackable VACIE****Compact sound system - up to 1800 W**

2 up to 6 loudspeaker lines
1 microphone consoles bus
Message scheduling
EN 54 Certified

**Monitoring module CS 2003****Monitoring module**

Supervision of : 3 loudspeaker lines, 3 amplifiers and 1 spare amplifier

**B35 - Modular VACIE****Scalable sound system**

Up to 120 loudspeaker lines
12U up to 42U
Dedicated controlling bus
EN 54 Certified

**Amplifiers range AD 8000****Class D amplifier range**

2U rackable - 8 channels - lockable XLR input and terminal block - 230 V/24 V power supply

**Ceiling loudspeaker RB-6501-EN54****Power : 10 / 6 / 3 / 1.5 W**

SPL level : 92.7dB(A)/1W/1m
Dimensions : 200 x 145 mm
Material : ABS
Color : White RAL 9003
EN 54 Certified

**Round ceiling speaker RB 501 EN5424****Power : 8 / 6 / 3 / 1.5 W**

SPL level : 91dB(A)/1W/1m
Dimensions : Ø200x100mm
Material : Metal
Color : white RAL9010 - For other colors, please contact us
High acoustical quality - easy mounting - moisture resistant
EN 54 Certified

**Ceiling loudspeaker RB-6502-EN54****Power : 20 / 15 / 7.5 W**

SPL level : 91.8dB(A)/1W/1m
Dimensions : 200 x 145 mm
Material : ABS
Color : White RAL 9003
EN 54 Certified

**Spherical speaker RB 2033 EN5424****Power : 20 / 10 / 5 / 2.5 W**

SPL level : 90dB / 1W / 1m
Dimensions : Ø 270mm
Material : ABS
Color : grey RAL 7035
2 coaxial ways - fiberglass - moisture resistant
Optimized for large spaces
EN 54 Certified

**Speak through intercom IG 1800**

Full duplex
Ready to install

**Intercom master station PC 1112**

12-way
15W - 50 Ohms
Flush or table mounting
24V power supply
Industrial use

**Intercom master station PC 1110**

10-way
0.5W - 50 Ohms
Wall or table mounting
230 V / 24 V = - 650 mA power supply

**Intercom master station PC 1155**

5-way
0.5W - 50 Ohms
Door release control
Wall or table mounting
230V~/24V= power supply - 250mA



Amplifier range AD 1000

Class D amplifier range

Up 75 to 2000 W
5 channels - 15 configurations
Lockable XLR input and terminal block
230V power supply
1U rackable or 2U rackable

Designations	Configurations	Dimensions
AD1-1075	1x75W	1U
AD1-1150	1x150W	1U
AD1-1250	1x250W	1U
AD1-1400	1x400W	2U
AD1-1500	1x500W	2U
AD1-2075	2x75W	1U
AD1-2150	2x150W	1U
AD1-2250	2x250W	1U
AD1-2400	2x400W	2U
AD1-2500	2x500W	2U
AD1-4075	4x75W	2U
AD1-4150	4x150W	2U
AD1-4250	4x250W	2U
AD1-4400	4x400W	2U
AD1-4500	4x500W	2U



Amplifier range AD 3000

Class D amplifier range

3 channels
Lockable XLR input and terminal block
230 V/24 V power supply
1U rackable

Designations	Configurations	Dimensions
AD3-0122	2x60W	1U
AD3-0183	3x60W	1U
AD3-0300	1x300W	1U
AD3-0423	1x300W + 2x60W	1U
AD3-0602	2x300W	1U



Amplifiers range AD 8000

Class D amplifier range
2U rackable - 8 channels - lockable XLR input and terminal block -
230 V/24 V power supply



Amplifier AR 4100

Power 400W

Amplification : either 4x100W or 2x200W or 1x400W



Dynamic close microphone GM 742

Optimized for noisy areas
Non-latching switch
Supplied with spiral 4-m cable on DIN plug



Dynamic microphone GM 820

On /Off button
Optimized for speech and song
Supplied with :
Travel bag,
Clip,
4 identification color rings,
10m cord with DIN connection



Electret microphone GM 921

Gooseneck mounted microphone
To be fixed on flat surface or adapted table base (option GZ 2150)



Digital audio matrix - Range CC 3816

RS232 link
Integrated DSP control
Cristal algorithm
CC 3816 6x1

6 inputs, among which 2 bus of RJ45 microphones
1 output on screw terminal

CC 3816 6x4

6 inputs, among which 2 bus of RJ45 microphones
4 outputs on screw terminal

CC 3816 8x16

8 inputs, among which 2 bus of RJ45 microphones
16 outputs on screw terminal



Digital audio matrix DN 3816

8x16 digital audio matrix with Ethersound interface

Zone selector - AZ 115

12-zone selector
All-call
Speech/Music input
230V AC/ 24V DC



Digital audio matrix CC-5808

8 independent channels matrix
8 musical source interfaces
4 consoles interfaces
Setting by zones
Monitoring level metre
Allocation light indicators
Power 230V



Cord GZ 31

DIN-DIN extension cord
10-m long (Male/Female)



Cord GZ 33

DIN-DIN connection cord
1.20m long (Male/Male)



Cord GZ 40

Locked DIN-DIN microphone cord
10-m long (Male/Female)



Cord GZ 42

XLR-XLR microphone cord
10-m long (Male/Female)



Cord GZ 44

DIN male - XLR female cord
1.20 m long



Cord GZ 45

XLR-XLR connection cord
1.20 m long (Male/Female)



Cord GZ 143

Link cable 1.20m - Jack male 6,35/DIN male plug



Cord GZ 141

RCA male / DIN male connection cord
1.50m long



Cord GZ 142

Male 3.5 jack / male DIN connection cord
1.20 m long



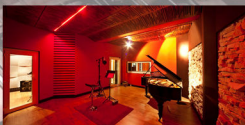
Cord GZ 150

Smartphone cable - Jack male 3.5 / RCA male plug -
CP 5874 Compatible

Audiovisual System



Vicoustic
Innovative Acoustic Solutions





Extron Electronics

INTERFACING, SWITCHING AND CONTROL



eBUS



XTP Systems



DTP Systems



Configurable
Control Systems



TouchLink
Touchpanels



IP Link Control
Processors



MediaLink
Controllers



Video Signal
Processors



Scalers & Signal
Processors



Videowall
Processors



Streaming AV
Products



HD Video Players



Audio Products



Speakers



Power Amplifiers



DSP & Processors



Wireless



Classroom AV
Systems



Extenders & Line
Drivers



Interfaces



Distribution
Amplifiers



Switchers



ARTHUR HOLM



Dynamic3



Dynamic3Reverse



DynamicX2



Dynamic1H



DynamicSignatureDisplay



Dynamic2



DynamicX2Talk



Dynamic3Talk



Dynamic1Twin



DynamicX2Gold



Dynamic1



DynamicTabLift



DynamicTalk



DynamicVision



TableTop



AH2



AH1



Desktop



Gooseneck



Static



Rise



Drop



Kiosk



ERT Interface



revolabs®



Revolabs makes conference phones and audio equipment for conferencing in any environment, from desktops to corporate boardrooms and auditoriums, large university lecture halls, broadcast and production studios, and more. Revolabs creates audio solutions that enable crystal clear communication for productive collaboration.



Conference Phones



Microphones



Accessories & more

SHURE®



MICROPHONES

MOTIV	Microflex
PG ALTA	Centravox
SM	VP
BETA	Other
KSM	
Classic	



WIRELESS SYSTEMS

BLX	QLX-D
PGX-D	ULX-D
GLX-D	UHF-R
FP	AxiEnt
SLX	Microflex Wireless
ULX-S	



EARPHONES

SE Earphones



HEADPHONES



PERSONAL MONITOR SYSTEMS

PSM 300	Wired Personal Monitor Systems
PSM 900	
PSM 1000	



DISCUSSION SYSTEMS

DDS 5900	DIR
DCS 6000	



SOFTWARE

Wireless Workbench	Firmware
ShurePlus	
Utilities	



MIXERS & DSP



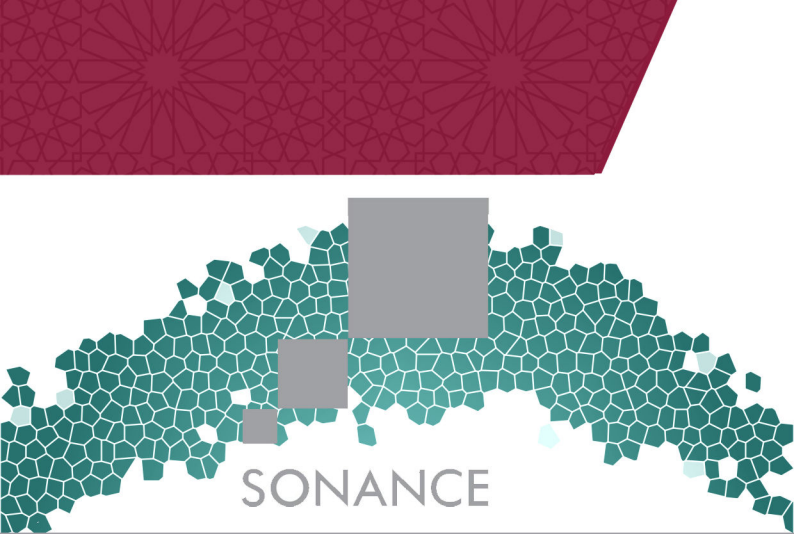
PHONO



ACCESSORIES

Mixers & DSP	Earphones
Microphones	Personal Monitor Systems
Wireless Systems	Phone
Headphones	Discussion Systems

**THE MOST TRUSTED
AUDIO PRODUCTS WORLDWIDE**



**Indoor & Outdoor
Wall & Ceiling
Multi-purpose Speakers**



DANA INNOVATIONS

Company



Discreet Opening System



New Digital & DSP Amplifiers



New Outdoor Speakers

LED SIGNAGES



LED DISPLAYS & FLOORS



FrameLED



LED displays of professional series FrameLED were designed specifically to address the challenges in the rental business. Minimum weight and thickness of the modules in combination with the ease of assembly enables you to create extraordinary architectural solutions in a short period of time.

BladeLED



Due to its versatility displays series BladeLED can be used both outdoor and indoor, with no loss of image quality at the expense of temperature and light changes. Video displays have a maximum degree of protection relevant to the international standards that ensure their reliability and long service life.

WOWFloor



EKTA LED floor - a multifunctional solution that allows you to create an unforgettable interior design, serves as a unique advertising tool, as well as interactive and learning platform.

DIGITAL SIGNAGES & WAYFINDING SYSTEM

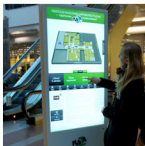


RUGGED DISPLAYS



Indicated for the transmission of public information, **designed to operate 24/7 in harsh conditions even in the presence of iron dust.** Integrate with any messaging system, available also in stretch mode.

INTERACTIVE DISPLAYS



A wide range of totems, monitors, kiosks, and multi-touch tables in various sizes and configurations, **to provide interactive solutions without borders** for full-outdoor, semi-outdoor and indoor applications.

CUSTOM PROJECTS



No limits to creativity and customer needs. Our skills and knowledge of materials and the use of modern processing technologies, allows us to deal with any digital signage solution and custom design.

SPECIAL PRODUCTS



An absolutely innovative tool that attracts consumers into the store because of the quality of the display and its design. **Videos, animations and images can be viewed with the utmost flexibility and simplicity.** Stand with wheels for easy transport and anti-theft blocking system.

VESTEL

Media Monitor



Signage TV



IP Monitor Signage



Android Signage



Intel Atom Signage



Fire-Rated Safe Cabinets

VALBERG





HEADQUARTERS:

C-Ring Road, Street 230
GRIDCO III Building, Suite 101

Tel : +974 4442 5500

Fax : +974 4442 9662

Website : www.gse-qatar.com