



Providing the Security 24x7

Security Division



www.trinergy-tech.com

ABOUT TRINERGY

Trinergy Technologies SA is a company mandated to address the growing automation needs of various industries in the Power, Water and Oil segments. The company offers total solutions with core competence in Security, Electrical, Instrumentation, and Control systems.

We collaborate with leading manufacturers of original equipment to provide state-of-the-art products & services with great focus on emerging markets.

We understand the regional challenges and market dynamics better, thereby offering solutions that are apt, flexible, scalable and secure. Strong partner networks ensure continuity of service and adoption of new technologies.

Our team of experienced professionals with domain knowledge in Electrical, Water, and Oil & Gas applications are committed to delivering quality products & services on time and meeting our customers' requirements.

Our approach to engineering solutions lies in offering a range of services ranging from application engineering to on-site implementation, followed by O&M services for Security, Automation and instrumentation platforms.

The main focus segments of the company are:

- Security Systems
- Automation Solutions & System Integration
- Energy Efficiency Solutions
- Condition Monitoring Solutions
- Specialized Services
- Power Quality And Monitoring Solutions

رؤية
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

We are contributing to KSA Vision 2030, we determine to reinforce and diversify the capabilities of our economy, turning our key strengths into enabling tools for a fully diversified future.

Our Vision : System Automation & Advance security

A secure cyber infrastructure and Automation that inspires technological innovation and fosters economic growth.

Our Mission : Accelerate Adoption of Automation & Secure Technologies

Collaborate with innovators to provide real-world, standards -based automation and security capabilities that address business needs.

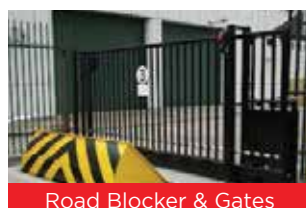
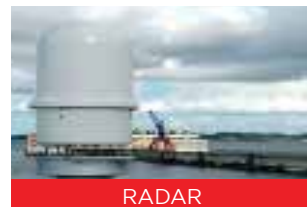


SECURITY DIVISION

Trinergy Technologies SA is a HCIS Approved Company and security division is providing 24x7 security services as per guide lines of HCIS directives.

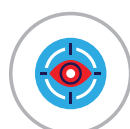
TRINERGY Physical security Suite addresses the security measures that are created and designed to deny unauthorized access and threats to facilities, equipment, assets and resources.

To protect personnel and property from damage or harm, Physical security involves the use of multiple layers of interdependent systems which include CCTV surveillance, Protective barriers, Turnstile, Access controls and Monitoring systems methods to deter security vulnerabilities and threats.



TRINERGY Cyber Defense Suite helps you to expand your view of the virtual landscape and gain protection and visibility across your organization - from endpoint to network and into the cloud.

We are expert in endpoint device security, Network Security, Firewalls, IDS and IPS, Threat intelligence and patch management monitoring to provide 24X7 support to our clients.





Security systems are necessary in all areas of industry, especially in those areas where there is a high risk of intrusion and leakage. We have vast experience and knowledge in security engineering. TRINERGY following the guideline of Saudi Arabian High Commission for Industrial Security (HCIS), complying with national industrial security standards and regulations on safety, security, and fire systems.

We provide innovative solutions in security, and we are specialists in the protection of Critical Infrastructures. We are offering:

- Video Surveillance System (CCTV)
- Intelligent video analysis and management System
- Access Control
- Perimeter Security
- Cyber Security



Video Surveillance System (CCTV)

TRINERGY Video Surveillance systems provides a range of innovative products with class-leading quality, which can help you to secure your premises from loss, vandalism, and other situations that tend to arise.

Our industrial Surveillance system is designed for large scale projects and complex large multi-site deployments. The solution offers centralized management of all devices, servers and users, and empowers an extremely flexible rule engine driven by schedules and events.



Dome Camera



Bullet Camera



PTZ Camera



ANPR Camera

Industrial Security

Intelligent video analysis and management System

Video analytics have quickly become a key element in today's security applications. TRINERGY Innovative digital product and system concepts centered on intelligent video analytics and sensor input allow the best possible coordination of system functionality with operator requirements. This becomes increasingly important for extensive and complex sites with varying security needs.



Access Control System

Protecting your Plants, buildings and the assets it contains often means more than simply locking doors and checking windows. With a reliable access system, TRINERGY can help you protect a single location or any number of locations from unauthorized individuals. Whether your business consists of one facility or hundreds, our access control systems—often referred to as keyless entry or card entry systems—can help you confidently manage access to each and every area.



Fencing

TRINERGY Perimeter protection is effectively the first line of defense in a physical security plan for a facility. We are providing the category 1 to 5 fence and covering under penetration and overhead penetration areas as per requirement of (HCIS) Higher Commission of industrial Security.



Perimeter Security



Perimeter Security

Perimeter Security are essential requirements for every kind of site: from industrial to commercial, from public to private and residential. TRINERGY offers smart perimeter protection systems guarantee an enhanced level of protection both for indoor and open-air security needs, in all kinds of locations and in different circumstances. We are offering:

- Fiber Sensing Fence IDS.
- Microwave Intrusion Detection Systems.
- Thermal Cameras.
- Ground Surveillance Radar Systems.

Fiber sensing - Fence IDS

Trinergy offers Fiber sensing intelligent system that reliably detect the attempts to climb or cut a fence, while ignoring distributed noise from wind, rain or vehicle traffic. By successfully distinguishing legitimate attacks from harmless environmental disturbances, nuisance alarms are prevented.



Perimeter Security

Microwave Intrusion Detection System

Microwave sensors, also known as Radar, RF or Doppler sensors, detect walking, running or crawling human targets in an outdoor environment. TRINERGY microwave IDS provides flexible, reliable microwave links and transceivers for the protection of open areas, gates or entryways and rooftop or wall applications.



Thermal Cameras

The TRINERGY thermal cameras system provides reliable detection - 24 hours a day, seven days a week and a great tool for detecting people and objects in 24/7 surveillance, from pitch black areas to a sunlit parking lot.

- 24X7 autonomous Tracking
- Detection with low false alarm
- Intrusion Detection in bad weather, and in complete darkness.



Ground Surveillance Radar System

TRINERGY Providing the long range and short-range Radar security system for Powerplants, Costal Surveillance and Airport Surveillance.

- Meter-by-meter coverage of large areas
- Preventing a disaster from happening
- Can work outside and inside your perimeter

Cyber Security



TRINERGY cybersecurity services enable your business with intelligence and expertise providing a new level of cyber-immunity. We are providing technological tools and services that help protect organizations against cyber-attacks, which can result in application downtime, theft of sensitive data, damage to reputation, compliance fines, and other adverse consequences.

Key benefits are:

- Proactive defend against cyberattacks.
- Tailored to your specific business needs.
- Industry-relevant threat intelligence.
- Increase your resilience against cyber threats.

Trinergy cyber security services covers:

- Operational Technology (ICS/OT)
- Threat Intelligence
- Patch Management
- Network Security & Endpoint Security

Trinergy cybersecurity solutions specifically for ICS & OT environments

TRINERGY integrated approach protects IT & OT, and other essential systems to keep operational processes going. Assessing threats at every level reduces risk and enhances focus on top priority areas.

We are providing the cyber security services for Substation, powerplants, Railway infrastructure, Oil and Gas industries and chemical plants.



Substations



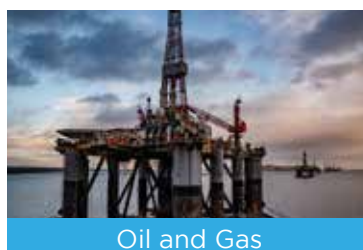
Powerplants



Water Treatment Plants



Railway Infrastructure



Oil and Gas



Chemical Plants

Threat Intelligence

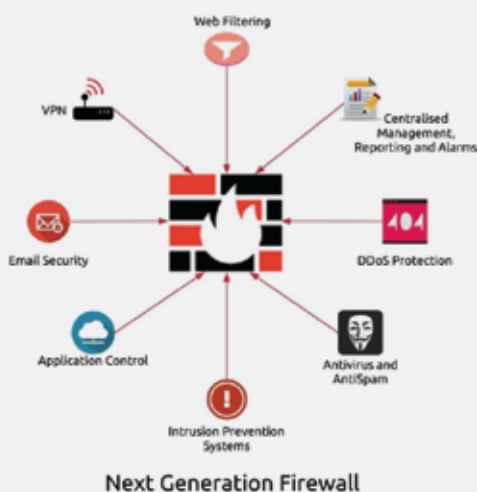
TRINERGY Threat Intelligence solution is an emerging technology discipline that helps organizations aggregate, correlate, and analyze threat data from multiple sources in real time to support defensive actions. Key features are:

- Easy deployment
- On premises or Software as service.
- Easy data sharing between stakeholders.



Patch Management

Patch management is a vital part of every vulnerability management program. TRINERGY offers automated solution for patch deployment for operating systems, applications, and embedded systems (like network equipment). When a vulnerability is found after the release of a piece of software, a patch can be used to fix it. Doing so helps ensure that assets in your environment are not susceptible to exploitation.



FIREWALL - Network Security

Firewalls is considered as first line of defense in network security. Trinergy is providing the Firewalls and their implementation in both office areas and industrial areas:

- To securely monitor the traffic.
- Identify potentially malicious traffic.
- Enable the organization to block, filter, or otherwise mitigate threats

End Point Security

TRINERGY provides endpoint protection suite, which is designed to securing endpoints or entry points of end-user devices such as desktops, laptops, and mobile devices. The Key benefits are:



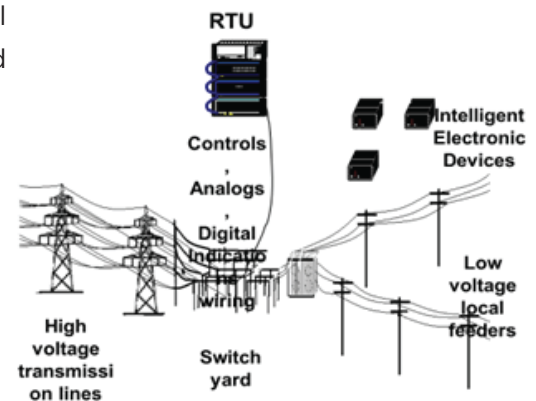
System Automation



Trinergy provides Remote Monitoring & Control solution for Power , Water , Oil & Gas applications . We offer the Automation solutions from Engineering to Testing & Commissioning. Also provides Life Cycle expansion programs of any Automation systems, Replacement of Old system with new one.

Automation Systems: Trinergy offers Monitoring & control solutions for Substations, Wellheads, Pumping stations and Industrial plants.

- RTU (Remote Terminal Unit)
- SOER (Sequence of Events Recorder)
- PLC (Programmable Logic Controller)
- GATEWAYS / DATA CONCENTRATORS
- REALTIME SYSTEMS (SCADA, EMS & SAS Services)



Multifunction Power Recorders: Trinergy offers Power Monitoring solutions from 13.8kv to 380KV Substations.

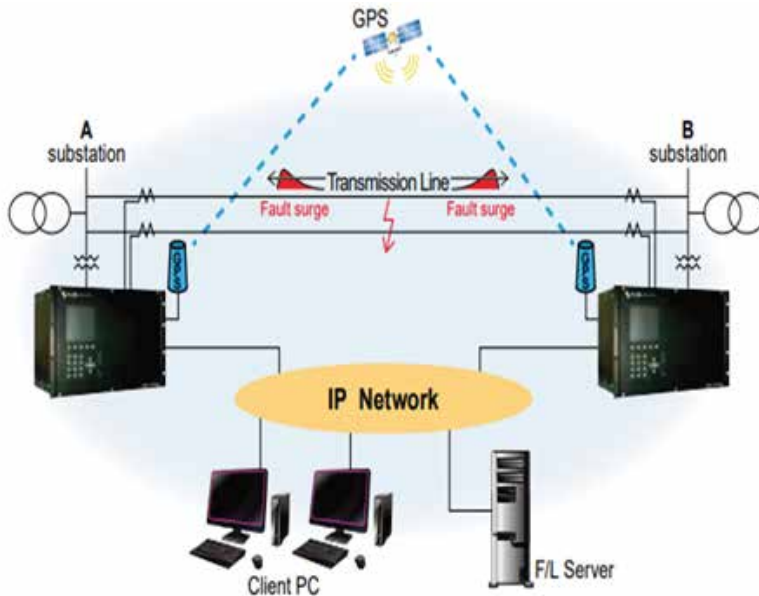
- Multifunction Power Recorder supports DFR, SOER, DSM, PQR and PMU.
- Can be installed in any voltage level > 6.6KV up to 380kv
- Monitor & Diagnosis for complete Electrical Equipment.
- Measurement functions are available- Watt(P)/Var(Q), harmonic trigger, power factor monitoring.
- User-selectable sample rates: 32, 64, 96, 128, 256 and 384 samples per cycle



System Automation

HV NETWORK MONITORING SOLUTIONS

This mainly for SEC EHV Network (33kv to 380kv), can able to locate the Faults with more accuracy and the solution is independent on Line length.



- Direct grounding and resistance grounded Transmission Lines.
- Overhead and Underground lines (MV, HV & EHV).
- Up to 600km maximum line length.

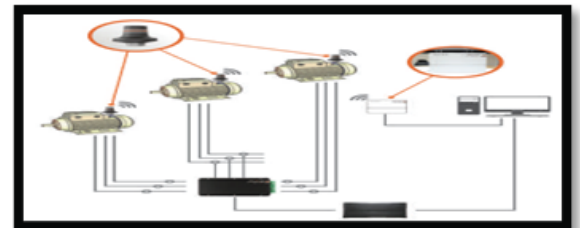
Key Features and Technical Advantages

- Best location accuracy of 348m independent of Line length.
- Each unit supports up to 6 Transmission Lines.
- 10,000 stored location result and able to be extended.
- Automatic Fault Location results

Asset Maintenance Services

Trinergy offers below Condition Base Monitoring systems for SWGR (Up to 13.8kv), Transformers (Transmission NW) , Battery Systems (48V DC to 220V DC) and Motors.

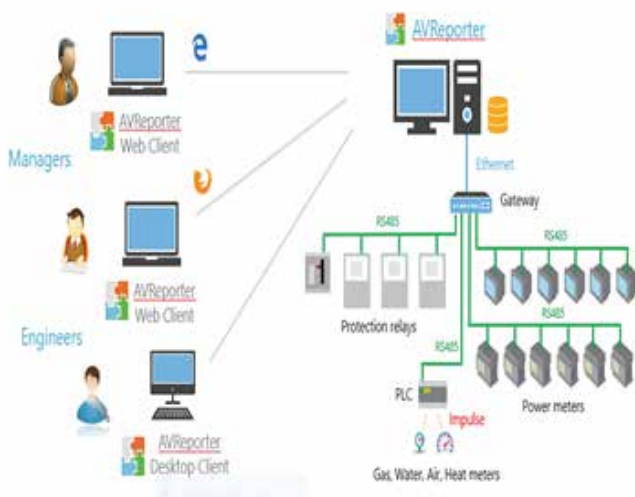
- Partial Discharge Monitoring
- Motor Condition Based Monitoring
- Battery Monitoring Systems
- Arc Detection Systems



Energy Monitoring Solutions

Trinergy offers Energy Monitoring solutions for Industrial segment which will enable the users to save significant Energy.

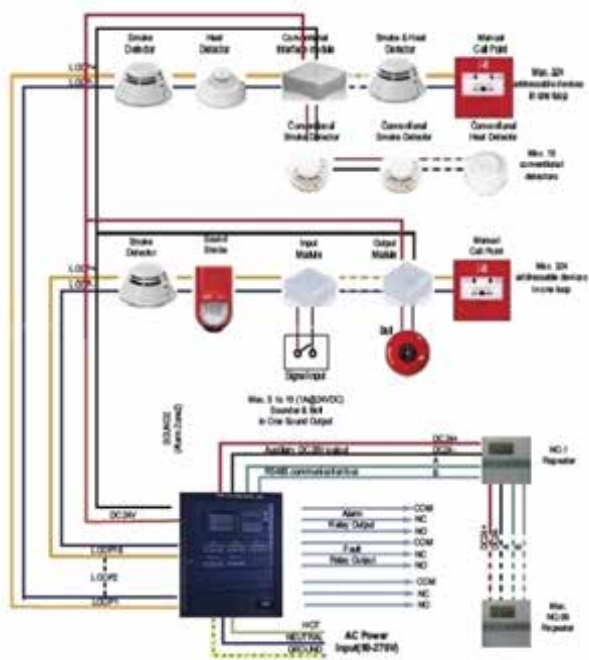
- Realtime Visualisation And Monitoring
- Advanced Reporting & Analysing
- Alarm And Event Management
- History & Trends Support
- Web Connectivity



Fire Protection

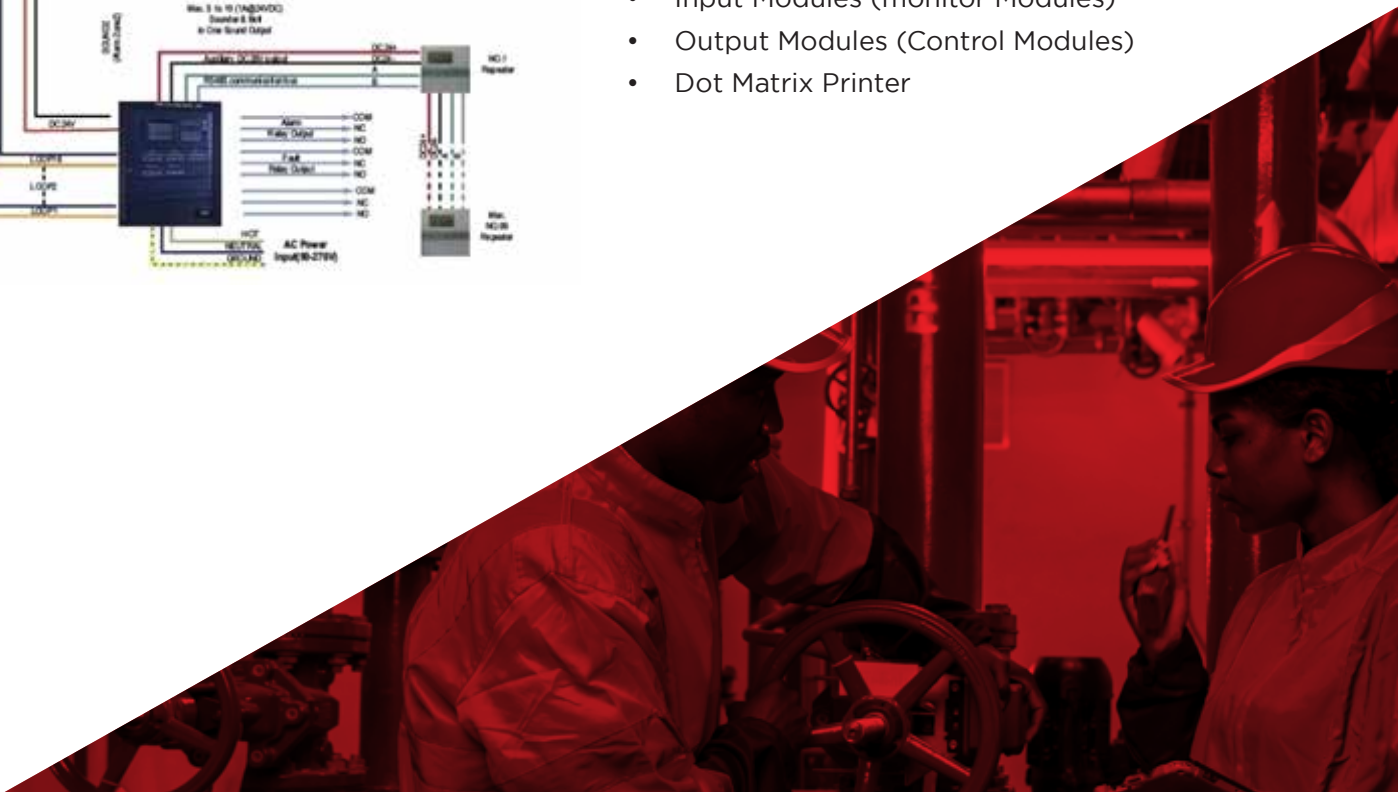


At TRINERGY Fire Protection Services, we believe a state-of-the-art fire alarm system is paramount to a successful safety plan. We offer a wide variety of alarm systems to meet every need & budget. Our product offerings from major manufacturers include highly advanced addressable systems designed to communicate highly detailed information as well as perform process management functions. From fire protection design to installation and maintenance, the team at TRINERGY is here to help!



Fire Alarm System Components

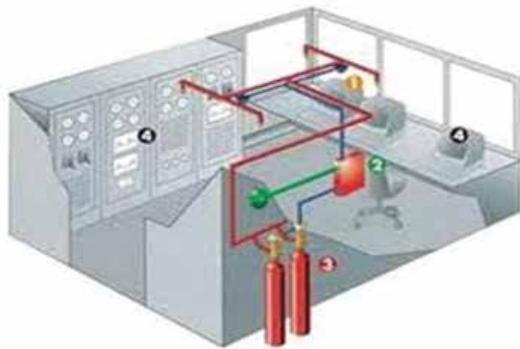
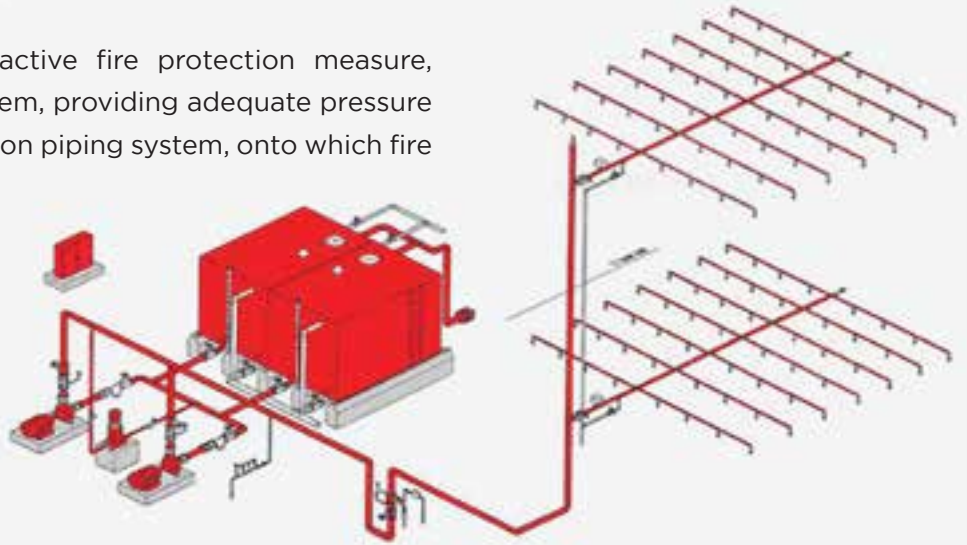
- Smoke detector (optical & Combination)
- Heat Detector
- Manual Call Point
- Bells
- Horn
- Strobe/Flasher
- Input Modules (monitor Modules)
- Output Modules (Control Modules)
- Dot Matrix Printer



Fire Protection

Fire Sprinkler System

A fire sprinkler system is an active fire protection measure, consisting of a water supply system, providing adequate pressure and flow rate to a water distribution piping system, onto which fire sprinklers are connected.



Energy Monitoring Solutions

- NOVEC 1230 Fire Suppression System
- CO2 Fire Suppression System
- FM200 Fire Suppression System

Deluge System

Deluge system throws large amount of water in case of fire. deluge valve is used to effectively deliver the water on site. Some of the main locations where Deluge Systems is designed for:

- Power stations
- Refineries
- Theatres, airports
- Tank farms
- Power plants



Fire Sprinkler System

Fire Extinguishers are used to extinguish fires Dry chemical Powder type Fire Extinguishers CO2 type Fire extinguishers Water based Foam extinguishers Water Extinguishers.

CLIENTS



PARTNERS



Projects Gallery



CCTV



Access Control



RADAR



Intrusion Detection System



Fencing & AVB



ALPR System



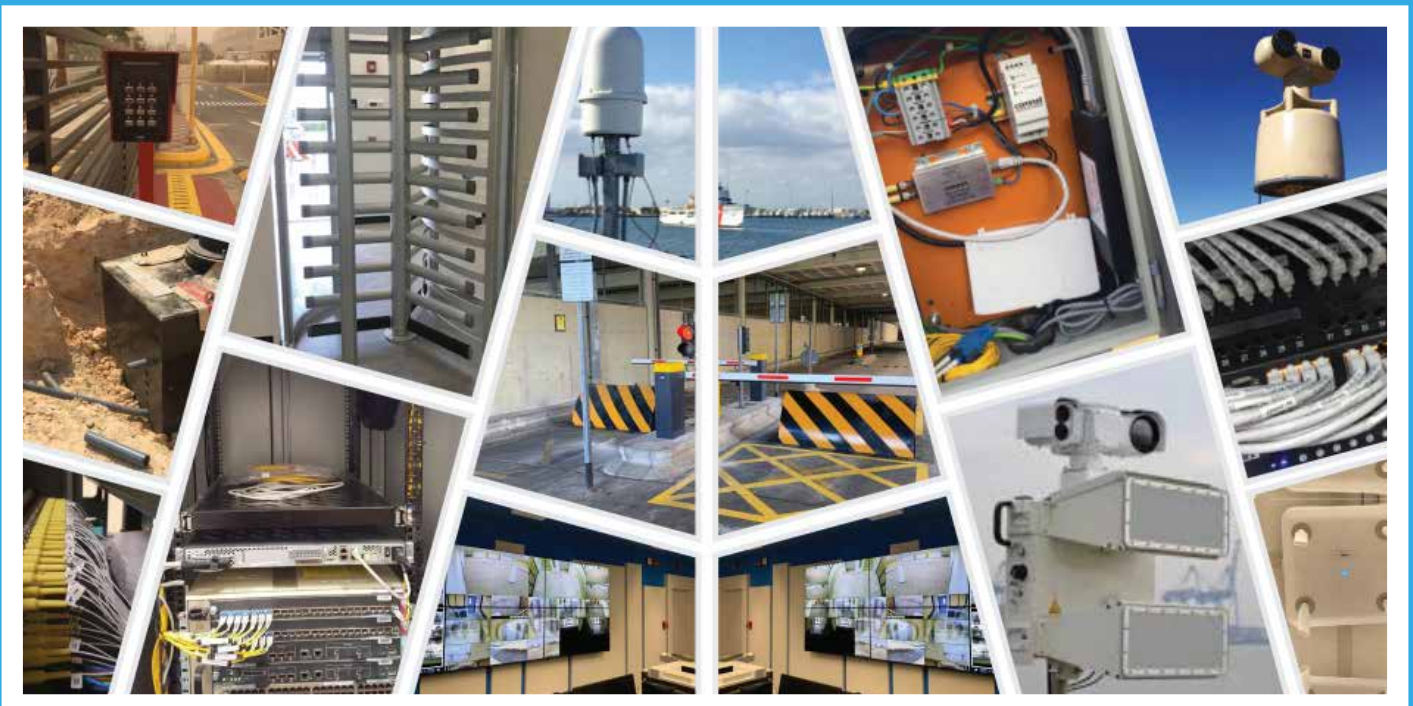
Bollard & Turnstile



Road Blocker & Gates



Gate Barriers





Head Office

Phone: +966 13 8479873

Fax: +966 13 8478974

Email: info@trinergy-tech.com

Address: Al Khalidhiyah Al Farisi St

P.O Box: 9236 Dammam-31413 Saudi Arabia

Security Division

Phone: +966 58 2607125

Email: alishah.m@trinergy-tech.com

cc: Security.solutions@trinergy-tech.com

www.trinergy-tech.com