

THE NEXT LEADING COMPANY

Hizen



Regional Cooperative Company

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Security & Defence
Environment-friendly Industry

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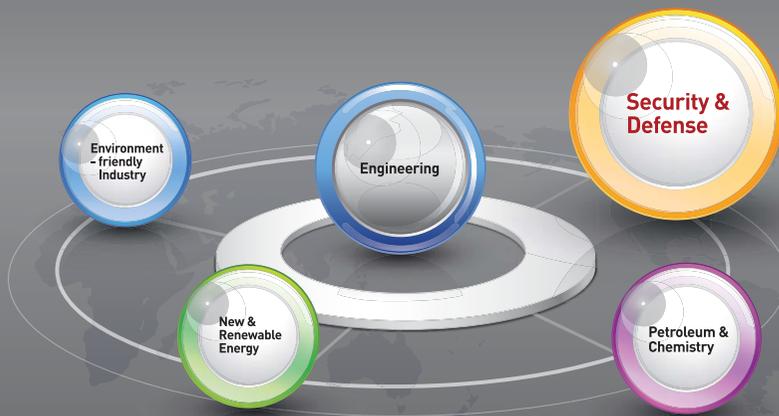
Hizen



GENERAL INFORMATION

Hizen is an incorporated company more than 20 years of experience developing projects in the areas of Security & Defense, Environment-friendly Industry, New & Renewable Energy and Petroleum / Chemistry.

Hizen aims at taking a creative and challenging approach to its business, leveraging its long know-how and up-to-date technologies ; thereby we are fully committed to expanding research manpower and facility investments, and developing products to lead advanced technologies in the areas of next-generation Security/Defense/Safety/Environment/Energy.



Since 2005 Hizen is certified under KSA9001:2001 / ISO 9001:2000.



Smart Vehicle Inspection System for Anti-Terrorism

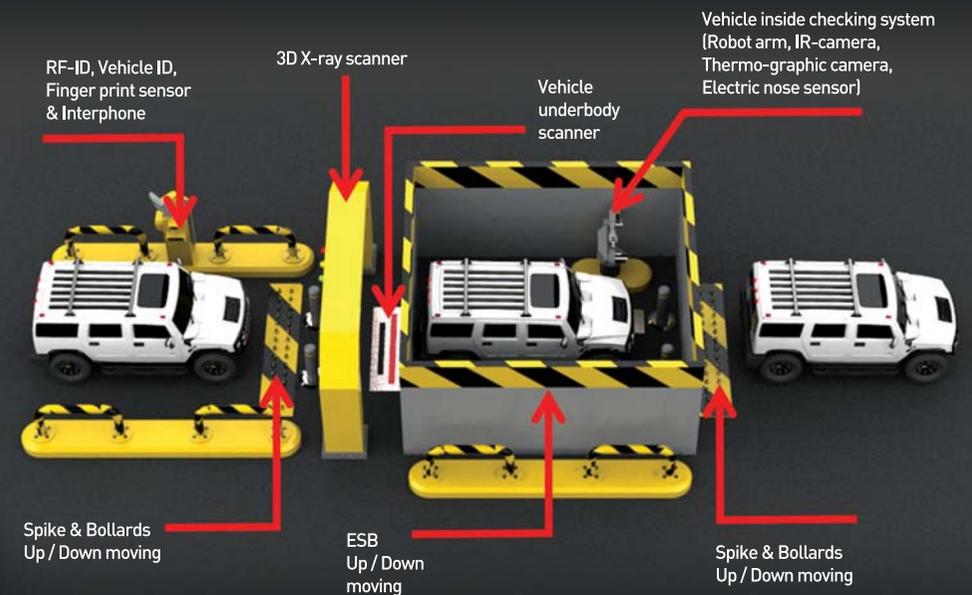


Inspection for Vehicle, Passenger and Baggage

Interception of Retreat by Auto-controlled Bollards

Protection of Explosives by ESB(Emergency Shielding Barrier)

Protect Main Offices, Facilities, Military Installations and Hotels



Auto-Controlled Electric Bollards

HIZEN developed the electric auto-controlled bollards system is to defend key facilities from terrorist attacks by the vehicle and used as a means to protect critical facilities through the control of vehicle movement.

Application

Protection of military facilities and special purpose facilities.

Terrorism protection by vehicle.

Theft prevention and vehicle control in buildings and facilities.



System for Protecting Underground Utilities and Preventing Damages

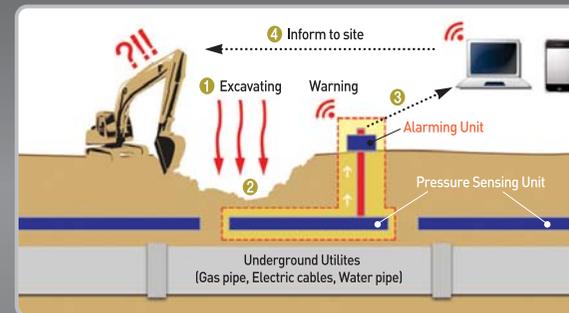
Concept

- Detect Pressure changes over predetermined level
- Direct Warnings : Light or Sound or Gas with smell
- Wireless Communication to the management server

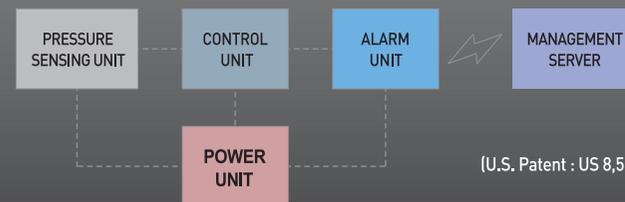
Application

- Protecting Underground Utilities from any Leakages, Contamination, Theft
- Gas Pipes, Oil Pipelines, Wires & Telecommunication cables, Water supply lines
- Applicable for the security guard in regional instability

Related Drawings



- ① Pressure by excavation work
- ② Detect the pressure changes over predetermined level and inform Alarming unit
- ③ Inform the warnings to worker / managing server using light or sound or gas or wireless communication
- ④ Inform the warning to the site



(U.S. Patent : US 8,587,428)

De-NOx System / SCR Catalyst Performance Device

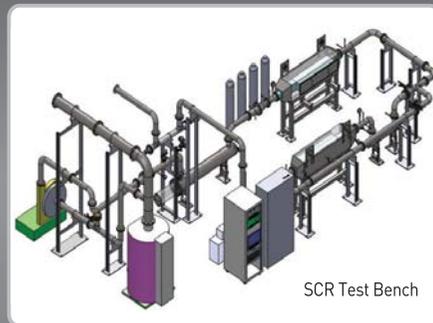
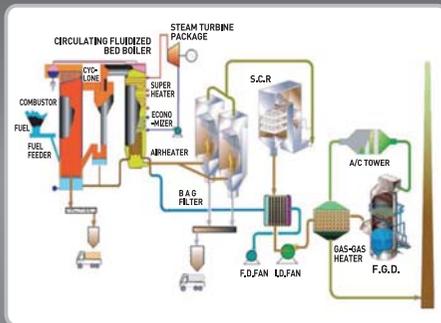
Concept

- Compact SCR (Selective Catalyst Reduction) Device
- Urea solution Injection method
- NOx Control & Analysis System

Application

- Power Plant, Marine, Municipal Waste Solid Incinerator,
- Petrochemical & Petroleum, Glass, Cement, Steel Industry

Related Drawings



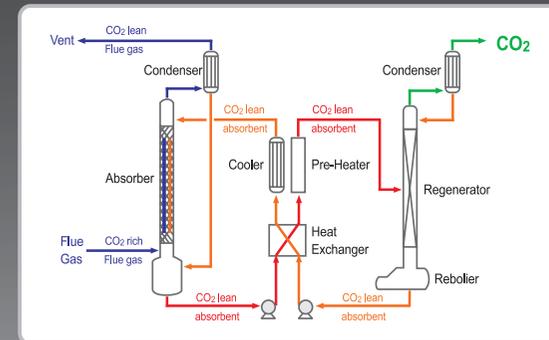
Catalyst System for Automotive Emission Control

- Catalyst Test Bench (LNT, SCR, DOC, TWC, DPF) of Vehicle Exhaust Fumes
- Catalyst Performance Tester under EURO-6 Standard

CCS / CCU for Plant / Greenhouse

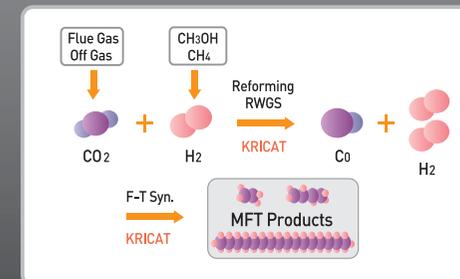
Carbon Capture & Sequestration

- Technology of Greenhouse Gas Reduction which causes global warming
- Engineering of Carbon Capture Sequestration /Utilization
- Integration Technique for CCS / CCU Component (Absorber - Regenerator)



Carbon Capture & Utilization

- Technology of Liquefied CO₂ (LCO₂)
- Development of CO₂ Supply System for Photosynthesis in Greenhouse Planting
- Technology of Linear Paraffin Wax using Co Catalyst from CO₂
- [Korea Patent : 10-089043]



F-T Synthetic Reaction System