REZONTECH

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Contents

1. Company

- **Company introduction**

REZONTECH

| Established 2004 | CEO |

Business overview

| Flame Detectors | Accessories | Cabinet type Automatic Fire Extinguishers |

| Disaster prevention area | Fire proof facility work | Total Asset US $ 200,000 | Employees 22 pers. |
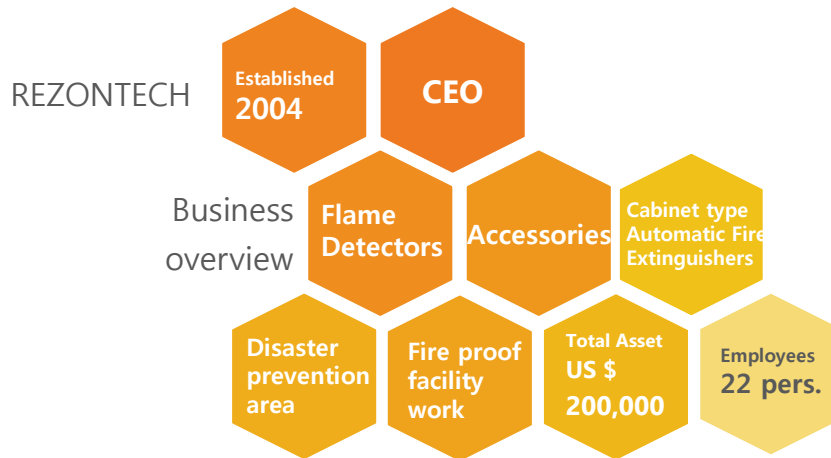
- **Organization**

Customers

- •Products B.U.
- •System B.U.
- •Production Team
- •Project Team
- •Institute for Disaster Prevention Equipment
- •Management B.U.

We will do our best to satisfy our customers.

- **Prestige in industry**

Technology	Developed Korea's 1st IR3 Type Flame Detector, world-class technology
Certificates & Quality	Holding the Highest level of International certification(Asia only).
Brands	Leading Company, top products of flame detector industry in domestic
Credit	The highest value is seeking the trust of products and company.
Good records	The manufacturer whose products can be applied to all field of industries. - Steel/ Shipbuilding/ Automotive/ Semiconductor /refined oil/ Shipping /cultural relics

1. Company

▪ **History**

2014
- Obtained IECEx (international explosive atmospheres) approval

2013
- Obtained ATEX(EURO) approval – IR3 type
- Obtained Asia's 1st CCCF(China) approval

2012
- IR3 type, Obtained FM(USA) approval – IR3 type & Hydrogen UV/IR Type
- Awarded for Excellent Company National Emergency Management Agency

2011
- Designated as G-Family Enterprise(Government of Gyeonggi-Province)
- Designated as INNOBIZ Company(Small & Medium Business Administration)

2010
- Certificate of accomplishment from the University of Texas at Austin
- Obtained Asia & Korea's 1st formality approval for IR3 type & UV/IR type
- Awarded Ministry of Security and Public Administration

2009
- CE certification(EMCD) - UV/IR Type
- Designated as Venture Enterprise(KIBO - Technical Fund)

2008
- Automatic Extinguisher System(AES) Type approval
- Established affiliated Institute of disaster prevention equipment
- Obtained license for fire protection engineering & works

2007
- ISO 9001, ISO 14001 Certification

2006
- Developed world's 1st IR3 type long distance Test Lamp

2005
- Obtained DNV GL approval. Shipping Supply flame detectors
- Pyong-taek LNG facility F&G system type approval (The only in Korea)
- Completed monitoring system for LNG production base
- Performance test completed based on Europe(CE) regulation (The first in Korea)

2004
- Triple IR(IR3) flame detector type approval(The first in Korea)
- UV/IR Explosion proof flame detector type approval
- Foundation of Rezontech Co., Ltd.

2. Business Overview

- **Products**

Flame detectors & accessories

- 15 kinds of Industrial Applications
- 3 kinds of Equipment applications (Burner, Ship)
- 4 kinds of Multi type flame detector(Flame/Smoke /Temperature/Humidity/Motion/Movie)
- 6 kinds of Test Equipment
- Accessories(Power supply etc.)

System Equipment

- 3 kinds of Cabinet type Automatic Fire Extinguishers
- Control Panel
- Applications FIRE ALARM SYSTEM

- **Certificates & Approvals**

NEPSI

KFI

ATEX

CE

FM

IECEx

Information & Communication

KGS

FM US

CCCF

GOST-R

2. Business Overview

- **Business accomplishment**

Flame Detectors

Industry
Power, Oil & Gas, Airport

- Thermal Power Plant
- Combined Heat and Power Plant
- Nuclear Power Plants
- LNG base
- Airport

Heavy industry
Iron manufacture, Steel, Shipbuilding, Automotive

- POSCO
- Hyundai Steel
- Dongkuk Steel
- Hyundai Heavy industries
- Hyundai Motors
- GM-Daewoo Motors
- POSCO-Pohang

Chemical & Petrochemical
Oil refining, Chemistry

- Samsung Electronics
- LG
- Hynics
- GS Caltex
- S-Oli
- Hyundai Oilbank
- SK
- Kumho

Facilities
Cultures etc

- UNESCO World Heritage
- Major Royal Palaces
- Temple
- Sejong center for performing art
- Hyanggyo etc

Semiconductor
Production facilities

- Samsung Electronics
- LS Cable
- Hynix Semiconductor
- LG Electronics
- LG Innotec
- Samsung Semiconductor
- Samsung SDI etc

Fire Extinguishing

System
Production facilities

- Samsung Electronics
- Samsung Display
- LG Electronics
- LG Chemical
- Doosan heavy industries & Construction
- Megagen Implant
- DIO Implant etc

Military Facilities

Defense industry
Military

- Navy Headquaters
- Ammunition storage
- Heliport
- Hangar
- LIG POONGSAN
- Doosan DST etc

Export

Foreign Export
40 countries

- Oil Drlling -Iran
- Petrochemical complex in Thailand Suzuki Motors- Thailand
- Philliphines Subic Factory
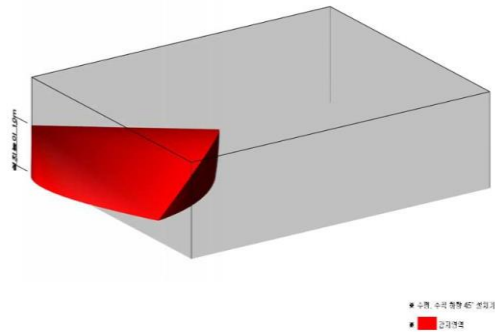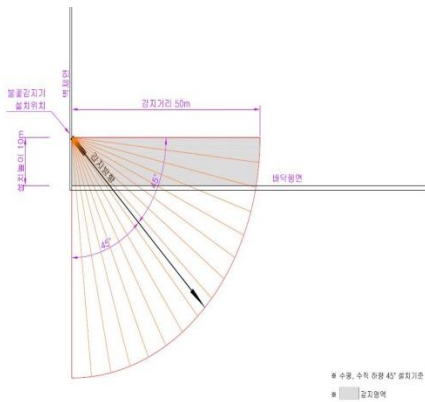- Ship Building - Cuba
- Steel pland -Vietnam

3. Flame Detectors

▪ **Principle**

Flame Detector is an electronic device detecting fire using specific wavelength of Ultraviolet(UV), Infrared(IR) or similar electromagnetic radiation emitted from fire.
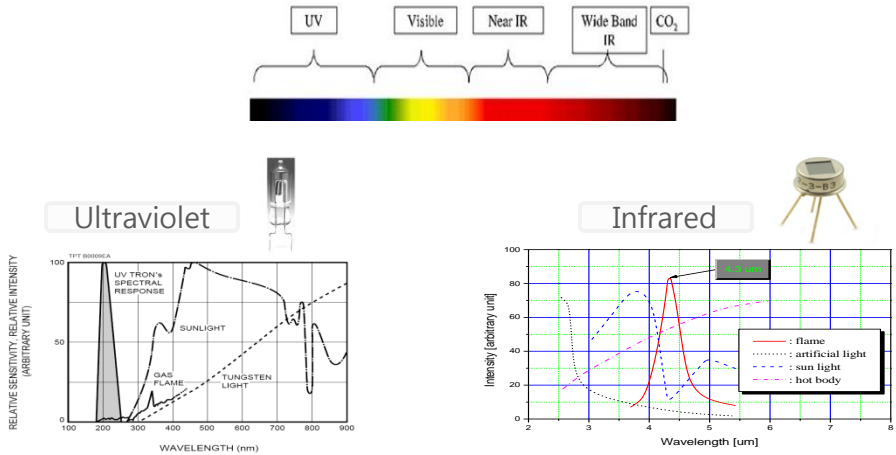
▪ **Detection zone**

Detect horizontal 90°, vertically 90° in cone shape   Detect wide space in three dimensions

3. Flame Detectors

- **Products**
  - **UV/IR TYPE**

	Outdoors	Outdoors	Outdoors	Indoors	Indoors	Indoors
Model	2FTN	2T	2FT	2FT5-I	2TN-I	2FTN-I
Distance	30m	25m	25m	50m	30m	30m
Angle	100°	90°	90°	90°	100°	100°
Explosion proof	●		●	●		●
Water proof	●	●	●	●	●	●
Performance	KFI CCC	KFI	KFI	KFI	KFI	KFI
Explosion Proof approval	Ex KGS CCC		KGS	KGS		KGS
Water Proof approvals	Ex KGS Ex NEPSI	ktl	KGS	KGS		KGS

  - **IR3 TYPE**

	Outdoors	Indoors	Indoors
Model	3FT	3FT-I	3T-I
Distance	50m	50m	50m
Angle	90°	90°	90°
Explosion proof	●	●	
Water proof	●	●	●
Explosion Proof approvals	KFI	KFI	KFI
Explosion Proof approvals	KGS	KGS	
Water Proof approvals	KGS	KGS	

3. Flame Detectors

▪ FM Approvals

RFD-3000X

- Spectral response: IR3 bands
- Detection range : 200ft(60m) for n-Heptane fire
- Field of view : Horizontal 90°, Vertical 90°
- Output : 4-20mA
- RS485 proprietary communication
- Operation voltage: 18~30Vdc
- Self test, Water proof, Explosion proof

RFD-3000

- Spectral response: IR3 bands
- Detection range : 200ft(60m) for n-Heptane fire
- Field of view : Horizontal 90°, Vertical 90°
- Output : 4-20mA
- RS485 proprietary communication
- Operation voltage: 18~30Vdc
- Self test, Water proof

RFD-2000X

- Spectral response: UV/IR type
- Detection range : 100ft(30m) for n-Heptane fire
- Field of view : Horizontal 90°, Vertical 90°
- Output : 4-20mA
- RS485 proprietary communication
- Operation voltage: 17~32Vdc
- Self test, Water proof, Explosion proof

RFD-2000

- Spectral response: UV/IR type
- Detection range : 100ft(30m) for n-Heptane fire
- Field of view : Horizontal 90°, Vertical 90°
- Output : 4-20mA
- RS485 proprietary communication
- Operation voltage: 17~32Vdc
- Self test, Water proof

RFD-2000X-H(Hydrogen flame detector)

- Spectral response: UV/IR type
- Detection range : 100ft(30m) for n-Heptane fire
                         15ft(4.5m) for Hydrogen (30" plume)
- Field of view : Horizontal 90°, Vertical 90°
- Output : 4-20mA
- RS485 proprietary communication
- Operation voltage: 17~32Vdc
- Self test, Water proof, Explosion proof

3. Flame Detectors

- **SINGLE TYPE**

RFD-UVS: UV Flame Detector for Burner-A type

- Spectral response:: SINGLE UV type
- Detection range : 3m for lighter
- Operation voltage: 18~32Vdc
- Water and dust tight: IP66(Option)

RFD-UVS-B: UV Flame Detector for Burner-B type

- Spectral response:: SINGLE UV type
- Detection range : 3m for lighter
- Operation voltage: 18~32Vdc
- Water and dust tight: IP66(Option)

RFD-IRS: Single IR Flame Detector for ship

- Spectral response:: SINGLE IR type
- Detection range : 5m
- Field of view: Horizontal 100° Vertical 100°
- Operation voltage: 17~32Vdc
- Performance test : ENS4 PART 10

- **MULTI TYPE**

RMD-5T: Wire/Wireless

- Flame(UV/IR), Smoke, Temperature, Humidity and Motion (Digital camera) Complexed Detector
- High Sensitive 3 staged Early Alarming Function
- Wide Selection of Detection Level, Alarming Announcement, Etc

RMD-3T: Wire/Wireless

- Flame(UV/IR), Smoke, Temperature, Motion(Digital camera) Complexed Detector
- Operation voltage: DC24V
- Effective pixels: 2million pixels

RFC-UI-IR3: flame detector combined CCTV, Video camera

- Spectral response: UV/IR or IR3 type
- Detection range : Depends on model
- Field of view: Horizontal 100° Vertical 100°
- Operation voltage: 17~32Vdc
- Performance test : ENS4 PART 10

3. Flame Detectors

- **Test Equipments**

TL205

TL305

TL3000

FS-10

FS-20

- **Accessorries**

PSU-20

PSU-05



BK-01


BK-02

AIR SHIELD

SUN SHIELD

4. Cabinet Type Automatic Fire Extinguishers

▪ **Principle**

Cabinet type auto Fire extinguisher is automatic fire prevention system which consists of fire detector, data receiver, extinguishing agent and discharging valve within one small cabinet, along with the various fire detectors installed within such as flame, smoke, and temperature detector, Cabinet type A.F.E system provides us nonstop fire detection and extinguishing solution to prevent fire disaster can cause life and property loss.
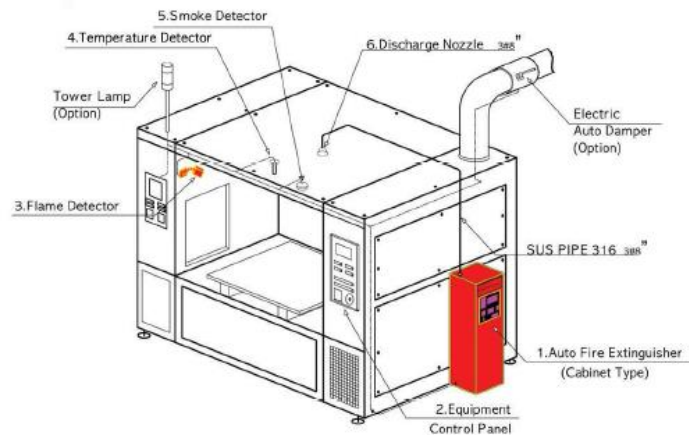
▪ **Operation Process**
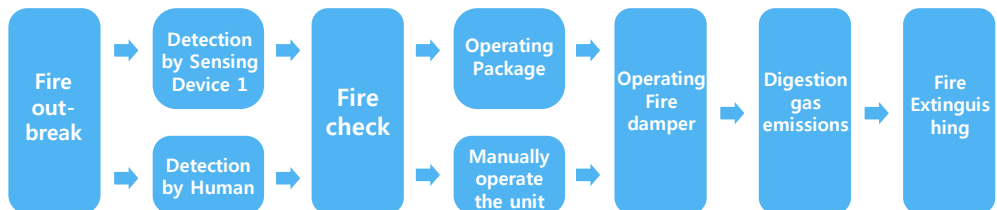
▪ **Applications**

- Semiconductor manufacturing machine, LCD Equipment, Constant temperature and humidity chamber, the chamber room Dishwasher, test equipment etc.

- Residential / Commercial building.

- Manufacturing, Power Station, Shipbuilding, Historical heritage, Museum, Library, Exhibition center

- Detector recovery. - Coating machine, Injection & Molding machine, ETC.

- Emergency

4. Cabinet Type Automatic Fire Extinguishers

- **Products**

RS-AES-45

- Agent: CO_2
- Storage capacity : 45kg(60m³ volume)
- Input: C220V / 60Hz / 2.5~3A
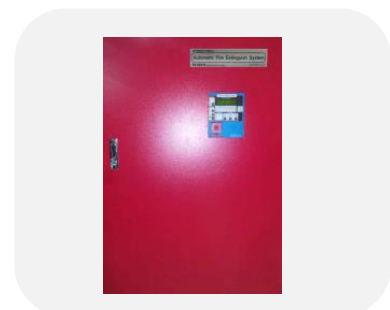- Operating temperature: -10~40℃
- Dimensions : 500(W) X 455(D) X 1900(H)

AES-07

- Agent: CO_2
- Storage capacity : 6.8kg(3.6m³ volume)
- Input : AC220V / 60Hz / 2.5~3A
- Operating temperature -10~40℃
- Dimensions : 360(W) X 340(D) X 930(H)

AES-07s

- Agent: CO_2
- Storage capacity : 6.8kg(3.6m³ volume)
- Input : AC220V / 60Hz / 2.5~3A
- Operating temperature: -10~40℃
- Dimensions : 270(W) X 280(D) X 760(H)

AES-N

- Agent: CO_2
- Storage capacity : 6.8kg X 2
- Input : AC220V / 60Hz
- Operating temperature : -0~50℃
- Dimensions : 710(W) X 420(D) X 990(H)

5. Control Panel

- **Feature**
  - It has high resist from noise as using 0~20mA electric current.
  - Can receive the status of sensor
  - It's easy to maintenance for the reason of function what can test the status of receive.
  - And also it has the monitoring system to make opening and management the receive information easy.

- **Structure**
  - Type : Exposure Type, Box Type
  - Casing : rolled steel , Air / powder spray finish
  - Size : 600mm x 1800mm x 900mm (Except supplement)
  - Weight : 320kg

- **Electrical**
  - Power Consumption : AC220/110V, 60Hz (Factory set AC220V)
  - System and sensor using voltage : DC 24V +- 20%
  - Receive signal : 0~20mA +- 0.5mA (125mA recommand)
  - Spare power : DC 24V / 40Ah Non mending storage battery