



# REZONTECH

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# 1. Company

## ▪ Company introduction



## ▪ Organization



- 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 1 <sup>st</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> 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/Move)
- 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



Information & Communication



KFI



KGS



ATEX



FM US



CE



CCCF



FM



GOST-R



IECEX

## 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

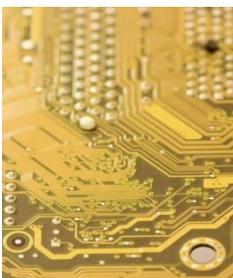
- Samsung Electronics
- LG
- Hynix
- GS Caltex
- S-Oli
- Hyundai Oilbank
- SK
- Kumho



#### 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 Headquarters
- Ammunition storage
- Heliport
- Hangar
- LIG POONGSAN
- Doosan DST etc

#### Export



#### Foreign Export

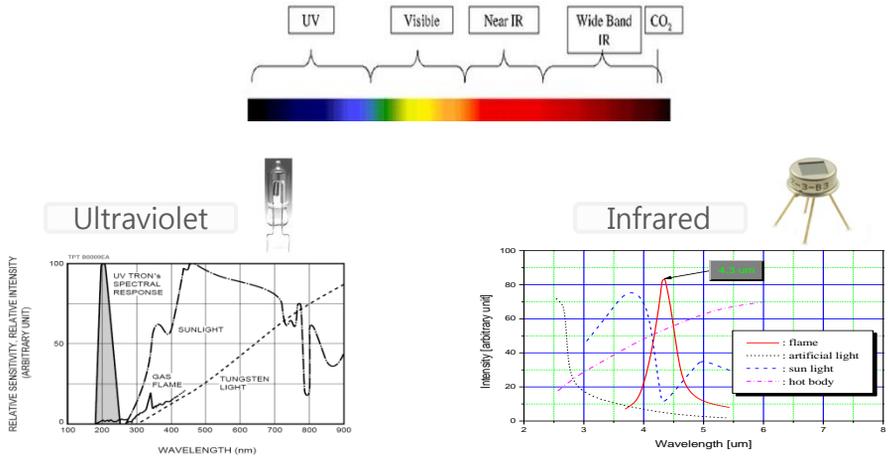
40 countries

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

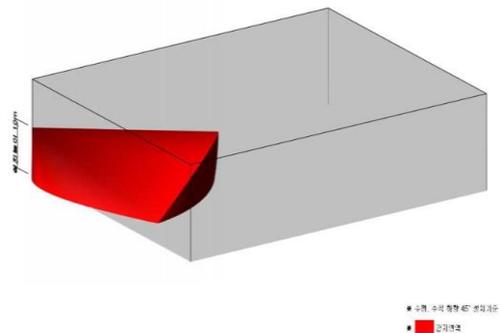
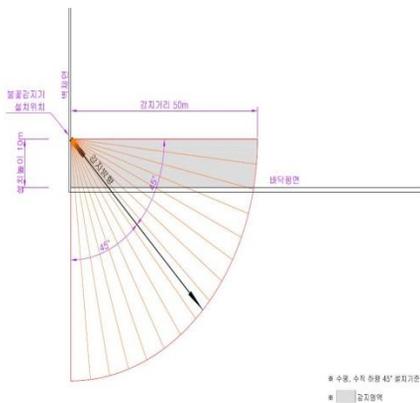
# 3. Flame Detectors

## 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 approvals	Ex UGS CCC		UGS	UGS		UGS
Water Proof approvals	Ex UGS Ex NEPS	kti	UGS	UGS		UGS

### 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	UGS	UGS	
Water Proof approvals	UGS	UGS	

# 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

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



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

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



#### RFD-IRS: Single IR Flame Detector for ship

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- 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

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- 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

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- 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

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- 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

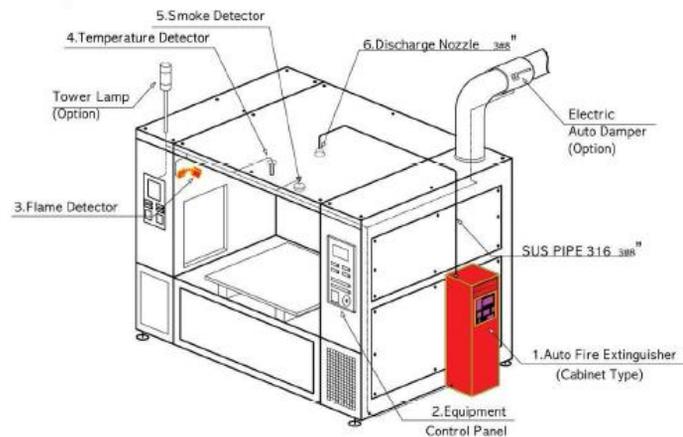


SUN SHIELD

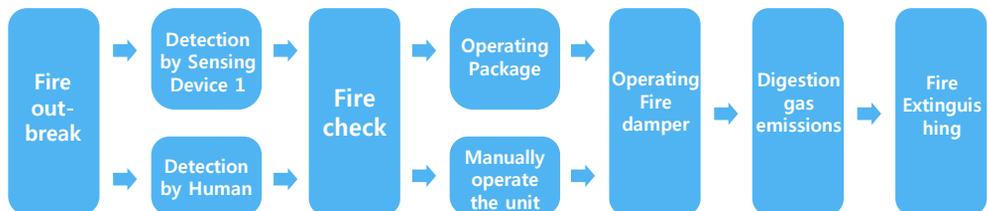
## 4. Cabinet Type Automatic Fire Extinguishers

### ▪ 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

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- Agent: CO<sub>2</sub>
- Storage capacity : 45kg(60m<sup>3</sup> volume)
- Input: C220V / 60Hz / 2.5~3A
- Operating temperature: -10~40°C
- Dimensions : 500(W) X 455(D) X 1900(H)



#### AES-07

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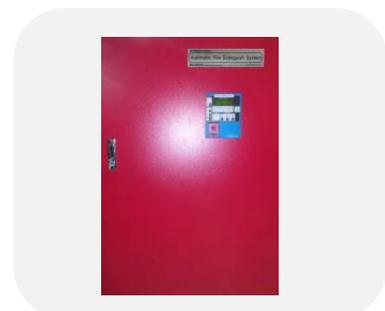
- Agent: CO<sub>2</sub>
- Storage capacity : 6.8kg(3.6m<sup>3</sup> volume)
- Input : AC220V / 60Hz / 2.5~3A
- Operating temperature -10~40°C
- Dimensions : 360(W) X 340(D) X 930(H)



#### AES-07s

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- Agent: CO<sub>2</sub>
- Storage capacity : 6.8kg(3.6m<sup>3</sup> volume)
- Input : AC220V / 60Hz / 2.5~3A
- Operating temperature: -10~40°C
- Dimensions : 270(W) X 280(D) X 760(H)



#### AES-N

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- Agent: CO<sub>2</sub>
- Storage capacity : 6.8kg X 2
- Input : AC220V / 60Hz
- Operating temperature : -0~50°C
- 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