

Digital Flame Detector





IRT Korea IR3-Digital Series





History

2017

- 06 · NFPA Conference and Expo in Boston.
- Warsaw Exhibition
- ATEX certification
- 05 · The Myanmar and Laotian markets
- 04 · Hanoi, Vietnam
- 03 · CeBIT Hannover (Germany).

2016

- 06 · Thai and Guangzhou
- Kuala Lumpur, Bangkok, Hanoi
- NFPA Conference & Expo in Las Vegas, America
- 05 · Indonesian and Malaysian
- 03 · East China Fair 2016, Shanghai.
- 3 patents on Flame detectors

2015

- 12 · Korea-Vietnam FTA Fair in Hanoi.
- 10 · Jordan and Algeria (KOTRA)
- China Fire Expo
- 09 · Started to export it to Sweden, Scotland, Jordan
- 06 · ISO14001 certification
- 2015 Chicago NFPA Conference and Expo

2014

- 11 · Flame Detector, approved by KFI
- 10 · 2 patents on Flame detectors

2013

- 08 · ISO9001 Certification
- 06 · Establishment of IRT Korea Co. Ltd.



Performance/Installation Cases

- Daejeon Sewage disposal plant
- Gwangju Institute of Science and Technology
- Seongju County Office (Cultural Heritage)
- Gyeongnam Culture & Arts Center
- Hapcheon County Office (Cultural Heritage)
- Youngone Corporation
- Gyeongsangdo Culture & Arts Center
- Hanjin Steel Pipe
- Sejong City Waste disposal facility
- Munsu Fortress (Cultural Heritage)
- Felarm Traditional Private school (Cultural Heritage)
- Sangju Yangjindang (Cultural Heritage)
- Cheongdo County Office
- Busan National Science Museum
- Boeun County Office (Cultural Heritage)
- Uljin County Office (Cultural Heritage)
- Marine Biodiversity Institute of Korea
- Boeun Beopju temple (Cultural Heritage)
- Hyundai Steel
- Yeosu Heungguk temple (Cultural Heritage)
- Ganghwa County Office (Cultural Heritage)
- Yeosu Research Institute of Medium&small Shipbuilding
- Osan Combined Heat & Power plant
- Soan Elementary School
- Iksan Forest Aviation Station
- Sejong Natural Gas Power plant
- Korea Iron & Steel Co., Ltd.
- Seongju Confucian School
- Sunchang Gymnasium
- POSCO
- SAMYOUNG CORPORATION
- Sangju City Office
- Siemens
- Dongtang Water Quality Restore Center (HYUNDAI E&C)
- Ssanggye temple (Cultural Heritage)
- Seongju Seokseon temple (Cultural Heritage)
- Bugok Ulsan Power Plant
- Korea Consumer Agency (New Building)
- Yulchon Combined Cycle Power Plant
- Kimchen KCC
- Doosan Corporation Electro-Materials (Kimcheon)
- JEI corporation (Daejeong)
- Korea Hydro&Nuclear Power
- Pocheon Thermoelectric power plant

Advantages of the Product

Excellent false alarm prevention feature IR3 Digital Flame Detectors

The best solution for eliminating the inconvenience of false alarms due to various fire detector installation site

- Application of precise infrared energy analysis technique
- Excellent immunity for false alarm
- Indoor, outdoor installation (sealed)
- Excellent immunity for false alarms due to high temperature and vibration wave such as electric motors (IR3/UV, IRT-110K)
- Smallest & lightest IR3 Flame Detector
- Remote sensitivity adjustment (30m/50m)



Patent & Certification





IRT-021-K

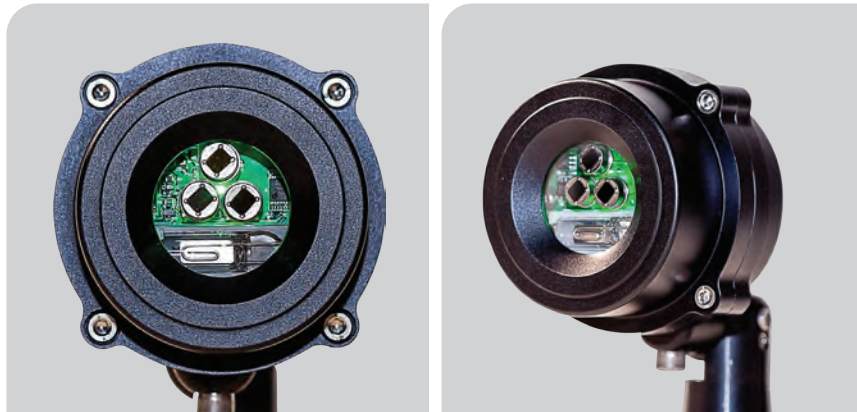


Specifications

General	Category	Flame Detector (IR3)
	Type	DC24V, Normal, Explosion proof, restorable, Indoor/Outdoor, IR type, Water proof, Viewing angle conical 90°, Detection range 50m
	Model	IRT-021-K (IR-3Digital_Ex)
Housing	Material	Stainless steel (SUS-316L)
	Color	Metal Silver
Electric specifications	Power	DC24V \pm 20% (19.2~28.8V)
	Electric current	Stand by : 40mA Operation : 50mA
	Contact output	ON / OFF
	Communication port	RS-485 / 4~20mA (Option)
Operating Environment	Operating temperature	-40°C ~ +85°C
	Operating humidity	0 ~ 95%
	Apply Location	Indoor / Outdoor
Other specifications	Size	Diameter : 56mm Length : 42mm
	Weight	650g (Cable Grand included)
	Window	Sapphire
	Explosion proof	Ex d IIC T6, Ex tD A21 IP67 T85°C



IRT-110-K



Specifications

General	Category	Flame Detector (IR3/UV)
	Type	DC24V, Normal, Restorable, Indoor/Outdoor, IR/UVtype, Water proof, Viewing angle conical 90°, Detection range 40m
	Model	IRT-110-K (IR-3Digital_UV)
Housing	Material	Aluminum Anodizing
	Color	Black
Electric specifications	Power	DC24V \pm 20% (19.2~28.8V)
	Electric current	Stand by : 45mA Operation : 50mA
	Contact output	ON / OFF
Operating Environment	Communication port	RS-485 / 4~20mA (Option)
	Operating temperature	-40°C ~ +85°C
	Operating humidity	0 ~ 95%
Other specifications	Apply Location	Indoor / Outdoor
	Size	Diameter : 64mm Length : 50mm
	Weight	430g
	Window	Sapphire



IRT-000-K(30m)

IRT-020-K(50m)

IRT-030-K(30/50m)

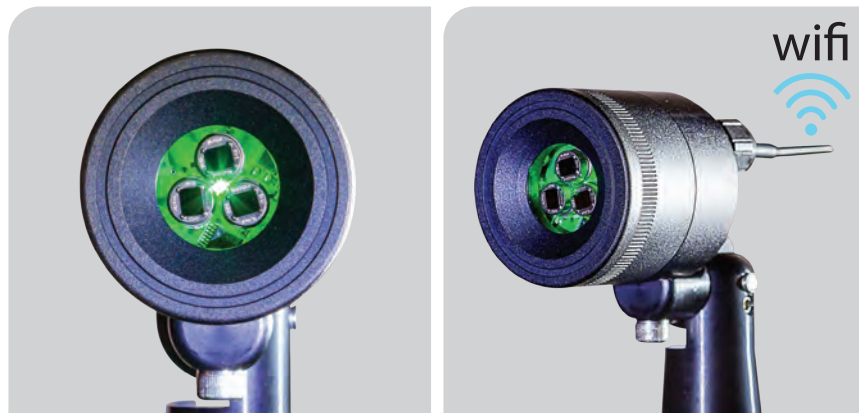


Specifications

General	Category	Flame Detector (IR3)
	Type	DC24V, Normal, Restorable, Indoor/Outdoor, IR type, Water proof, Viewing angle conical 90°, Detection range 30m/50m
	Model	IRT-000-K(30m) (IR-3Digital_30m) IRT-020-K(50m) (IR-3Digital_50m) IRT-030-K(30/50m) (IR-3Digital_M)
Housing	Material	Aluminum Anodizing
	Color	Black
Electric specifications	Power	DC24V \pm 20% (19.2~28.8V)
	Electric current	Stand by : 40mA Operation : 50mA
	Contact output	ON / OFF
	Communication port	RS-485 / 4~20mA (Option)
Operating Environment	Operating temperature	-40°C ~ +85°C
	Operating humidity	0 ~ 95%
	Apply Location	Indoor / Outdoor
Other specifications	Size	Diameter : 50mm Length : 43mm
	Weight	120g
	Window	Sapphire



IRT-300-K



Specifications

General	Category	Flame Detector (IR3)
	Type	DC24V, Normal, Restorable, Indoor/Outdoor, IR type, Water proof, Viewing angle conical 90°, Detection range 30m
	Model	IRT-300-K
Housing	Material	Aluminum Anodizing
	Color	Black
Electric specifications	Power	DC24V \pm 20% (19.2~28.8V)
	Electric current	Stand by : 40mA Operation : 50mA
	Contact output	ON / OFF
	Communication port	RS-485 / 4~20mA (Option)
Operating Environment	Operating temperature	-40°C ~ +85°C
	Operating humidity	0 ~ 95%
	Apply Location	Indoor / Outdoor
Other specifications	Size	Diameter : 50mm Length : 45mm
	Weight	120g
	Window	Sapphire



180° Detector



❖ Products

IRT-400-K

: Asymmetric effective detection distance
(horizontal: 60m / vertical: 30m)

IRT-420-K

: Asymmetric effective detection distance
(horizontal: 100m / vertical: 50m)

❖ Option



Dual Adapter



4-20mA Output Junction Box

