



Flame Detector Leading Company

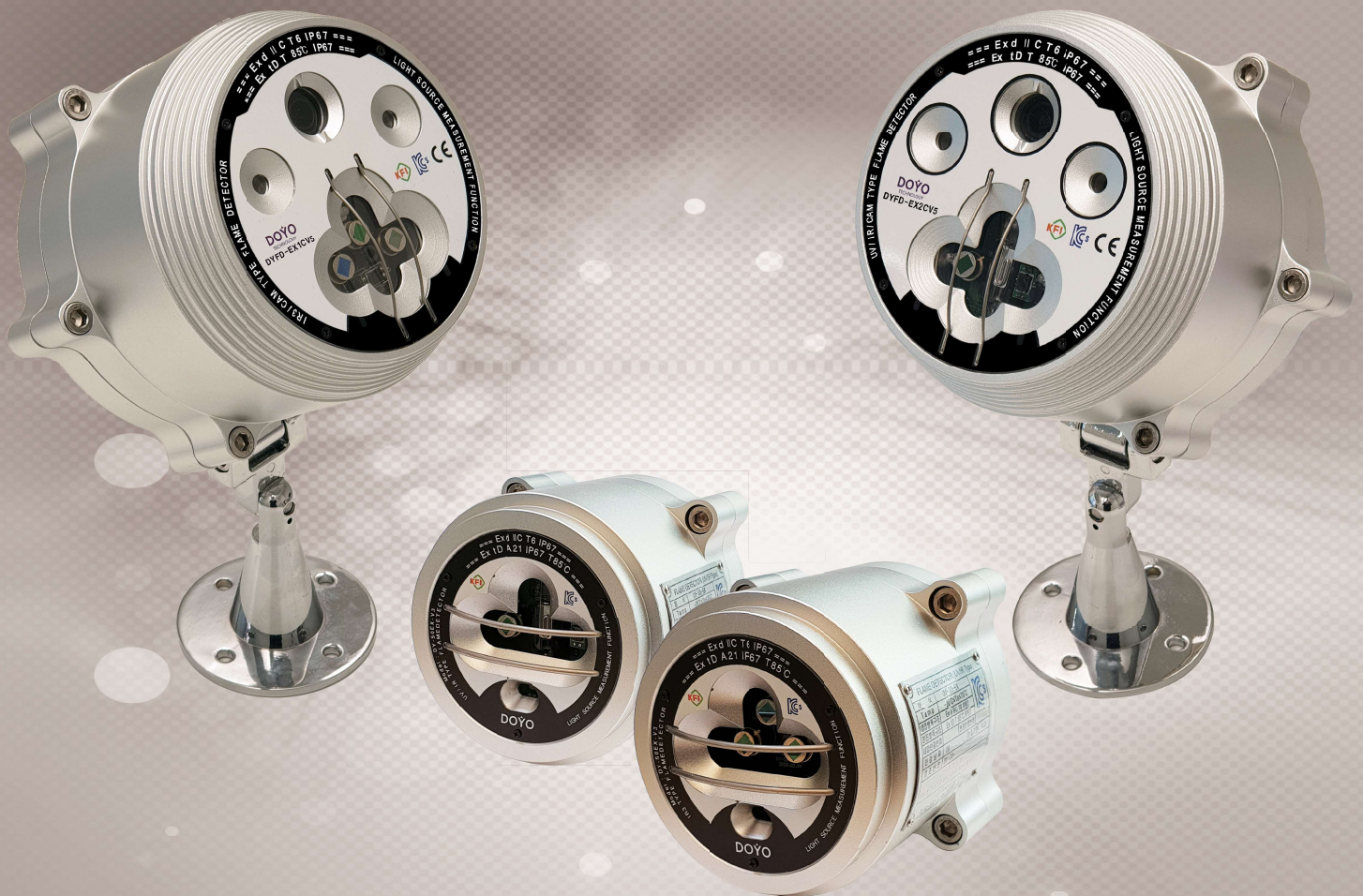
DOYO Technology CO.,LTD.



DOYO

TECHNOLOGY

Creative Leader in FLAME DETECTORS



History



- | | |
|-------------|--|
| 2015 | <ul style="list-style-type: none"> 11 – Establishment of corporation(Capital KRW 700 million) 12 – Disaster prevention test site construction |
| 2016 | <ul style="list-style-type: none"> 01 – Factory establishment and registration 06 – Quality management system authentication (ISO 9001:2008) – Environmental management system certification (ISO 14001:2004) 11 – Producer liability insurance (P/L insurance) – Academic-Industry Cooperation Agreement on Fire Prevention (Seoyoung University) |
| 2017 | <ul style="list-style-type: none"> 01 – Selected as a promising company and ITEM (mobile linked CCTV type flame detector) 05 – Registered as Nara Marketplace by Public Procurement Service (goods, construction business) – Venture company certification (Technology Guarantee Fund) – Technology evaluation excellent company certification (NICE evaluation information) 06 – Traditional market pilot project, special (CCTV type) flame detector installation (Yeongdeungpo Market) 08 – Completed development of video control device and recording equipment for disaster prevention, established headquarter's server – Factory, Headquarters Separated Director (Factory: DOYO Building 4F, Headquarters: DOYO Building 3F) 11 – CCTV integrated flame detector installation (Seoul Chung-Ang University Hospital) – CCTV integrated flame detector installation (Yeosu Dokkaebi Traditional Market) 12 – CCTV integrated flame detector installation and supplier registration (Iljin Global) |
| 2018 | <ul style="list-style-type: none"> 01 – CCTV integrated flame detector installation and supplier registration (Iljin) – Acquisition of explosion-proof certificate "Ex d IIC T4 IP67" (IR3 Type) (Korea Gas Safety Corporation) 03 – Registered as a partner for establishing a disaster prevention system for traditional temples of the ancient sect. 05 – Acquisition of conformity registration certificate for broadcasting and communication equipment, etc. (National Electromagnetic Research Institute) 06 – CCTV integrated flame detector installation (Binggrae) 12 – Acquired Patent No. 10-1924854 (Multifunctional Receiver for Fire Detection) |
| 2019 | <ul style="list-style-type: none"> 01 – Installation of Smart CAM type flame detector and registration of partner (Bearing Art Co., Ltd) 02 – Patent No. 10-153878 (Analogue and Digital Sensor Mixed Infrared Flame Detector) 04 – Patent No. 10-175861 (Infrared flame detector equipped with illumination sensor) 06 – Acquisition of explosion-proof certificate(DY-50-EX) "Ex d IIC T4 IP67 (Korea Gas Safety Corporation) – Acquisition of explosion-proof certificate(DY-50-EX) "Ex tD A21 IP67 T85℃ (Korea Gas Safety Corporation) – Patent No. 10-1993660 (Flame detector with multi-axis rotating structure) 11 – Installation of Smart CAM type flame detector and registration of partner (Iljin Bearing) |

History



2020

- 01 - Acquisition of explosion-proof certificate(DYFD-EX1CV5) "Ex d IIC T6 IP67"
(Korea Gas Safety Corporation)
- Acquisition of explosion-proof certificate(DYFD-EX1CV5) "Ex tD A21 IP67 T85℃"
(Korea Gas Safety Corporation)
- Acquisition of explosion-proof certificate(DYFD-EX2CV5) "Ex d IIC T6 IP67"
(Korea Gas Safety Corporation)
- Acquisition of explosion-proof certificate(DYFD-EX2CV5) "Ex tD A21 IP67 T85℃"
(Korea Gas Safety Corporation)
- 02 - Installation of Smart CAM type flame detector and registration of partner
(Coca-Cola Co., Ltd.(Gwangju factory))
- 03 - Installation of Smart CAM type flame detector and registration of partner
(Hyundai L&C Co., Ltd.)
- 08 - Acquisition of explosion-proof certificate(DYFD-EX1NV3) "Ex d IIC T6 IP67"
(Korea Gas Safety Corporation)
- Acquisition of explosion-proof certificate(DYFD-EX1NV3) "Ex tD A21 IP67 T85℃"
(Korea Gas Safety Corporation)
- 11 - Acquisition of explosion-proof certificate(DYFD-EX2NV3) "Ex d IIC T6 IP67"
(Korea Gas Safety Corporation)
- Acquisition of explosion-proof certificate(DYFD-EX2NV3) "Ex tD A21 IP67 T85℃"
(Korea Gas Safety Corporation)
- Installation of Smart CAM type flame detector and registration of partner
(Hankook Tire Co., Ltd.(Daejeon Factory))

2021

- 01 - Installation of Smart CAM type flame detector and registration of partner
(POSCO(Pohang Steel-Power Plant 1st Division))
- 02 - Joint Research and Opening Project for the Commercialization of Fire Supplies
Wquipment in 2021 (Projects to support the Korea Fire Industry Technology Institute)
- 06 - Acquisition of KFI Certificate(DYFD-EX2CV5)
UV/IR/SMART CAM Explosion Proof Type Fire Detector
- Installation of Smart CAM type flame detector and registration of partner
(Hyundai L&C Co.,Ltd.)
- 07 - Acquisition of KFI Certificate(DYFD-EX1NV3)
IR3 Explosion Proof Type Fire Detector
- 08 - 13th Prime Minister Award for Fire Industry(Industrial Technology Division)
SMART CAM Type Fire Detector
- Installation of Smart CAM type flame detector and registration of partner
(Coca-Cola Co., Ltd.(Yeoju Factory))
- 10 - Installation of Smart CAM type flame detector and registration of partner
(KGS Ginseng Corporation(Buyeon Red Ginseng Warehouse))

2022

- 04 - Installation of Smart CAM type flame detector and registration of partner
(Ssangyong Cement (Yeongwol Factory))
- 06 - Establishment of business agreement and product installation with LG Chemical
(Daesan Plant (Explosion Proof Type))
- 07 - Establishment of business agreement and product installation with LS Cable & System
(Donghae Plant (Explosion Proo Type))
- 08 - Coupang business agreement and product installation
(Icheon Center 1 Logistics Warehouse (General Type))
- 10 - Establishment of business agreement and product installation with Korea Hydro & Nuclear
(Ulsan Seosaeng (Explosion Proo Type))
- 11 - Installation of Smart CAM type flame detector and registration of partner
(SK Shielders)

2023


- 04 - Acquisition of KFI Certificate(DYM50-CAM-GIP)_IR3/SMART IP CAM Type Fire Detector
- Acquisition of KFI Certificate(DYM50-GE2)_IR3 Type Fire Detector
- 06 - Installation of Smart CAM type flame detector and registration of partner
POSCO affiliate P&O (Gong ju factory)
- 09 - Company relocation - Pangyo IT Center
- Installation of Smart CAM type flame detector and registration of partner
(Kumho Oil)
- 11 - Installation of flame detector - POSCO Pohang Steelworks 200 units
(Excluding Pohang 2 hot-rolled heating furnace)
- 12 - Installation of Smart CAM type flame detector and registration of partner
Samsung Electro-Mechanics (Busan Factory)

Certification

KFI Certification



DYM50-CAM-GE
IR3/CAM Type



DYM30-CAM-GE
UV/IR/CAM Type



DYM-50-GE
IR3 Type



DYM-30-GE
UV/IR Type




DY-50-EX
IR3
(explosion-proof)



DYFD-EX1NV3
IR3
(explosion-proof)



DYFD-EX2NV3
UV/IR
(explosion-proof)




DYFD-EX1CV5
IR3/CAM
(explosion-proof)




DYFD-EX2CV5
UV/IR/CAM
(explosion-proof)


Electromagnetic Compatibility Certificate




DYM-30-GE
UV/IR Type




DYM-50-GE
IR3 Type




DYM30-CAM-GE
UV/IR/CAM Type




DYM50-CAM-GE
IR3/CAM Type




DY-50-EX
IR3
(explosion-proof)




DYFD-EX2CV5
UV/IR/CAM
(explosion-proof)



DYFD-EX1CV5
IR3/CAM
(explosion-proof)




DYFD-EX1NV3
IR3
(explosion-proof)




DYFD-EX1NV3
UV/IR
(explosion-proof)


Explosion-Proof Safety Certificate



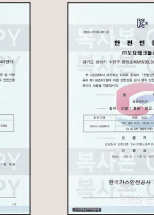
DYFD-EX1NV3(IR3)
Ex IIC T6 IP67



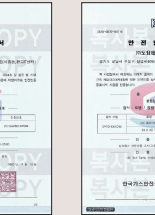
DYFD-EX1NV3(IR3)
Ex ID A21 IP67 85°C




DYFD-EX2NV3(UV/IR)
Ex IIC T6 IP67




DYFD-EX2NV3(UV/IR)
Ex ID A21 IP67 85°C




DYFD-EX1CV5(IR3/CAM)
Ex IIC T6 IP67



DYFD-EX1CV5(IR3/CAM)
Ex ID A21 IP67 85°C



DYFD-EX2CV5(UV/IR/CAM)
Ex IIC T6 IP67



DYFD-EX2CV5(UV/IR/CAM)
Ex ID A21 IP67 85°C

Registration / Certificate



ISO9001-2015
Certification



ISO14001-2015
Certification



T6 certificate



Venture company
Certificate



Public Procurement
Service registration certificate



Taegojong Disaster
Prevention Agreement



Small business
Confirmation


Patent Certificate



Patent
(제10-1924854호)




Patent
(제10-1953878호)



Patent
(제10-1975861호)



Patent
(제10-1993658호)



Patent
(제10-1993660호)



Patent
(제20-2016-0002136)

Recipient of the Prime Minister's Award in the Industrial Technology Category at the 13th Fire Industry Awards.



Korea's First!

Implementation of mobile application

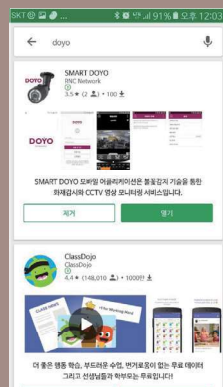
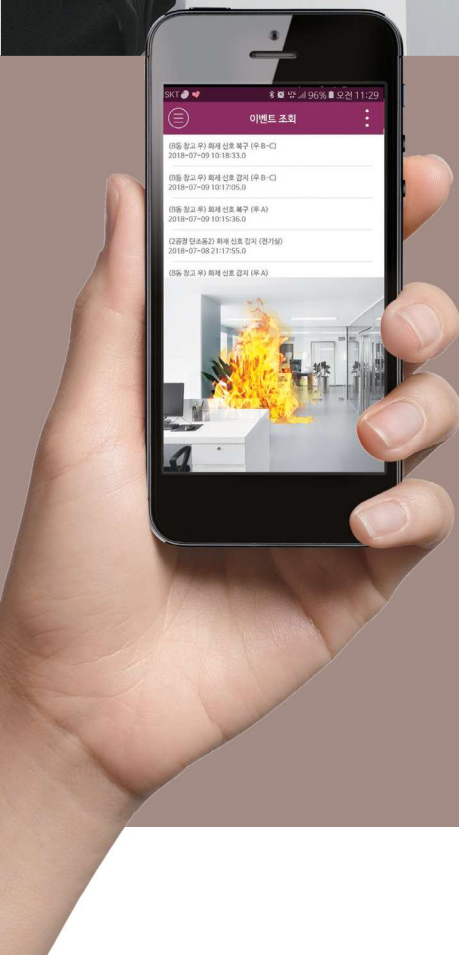
Integrated CCTV and flame detection technology



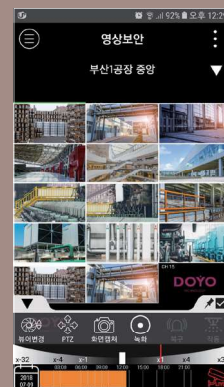
Immediate alarm notifications to your phone!

Check CCTV live feeds through your phone.

Easily locate starting point of the fire and respond rapidly



Insert mobile application



Check live CCTV footage



Receive alarms immediately in times of fire

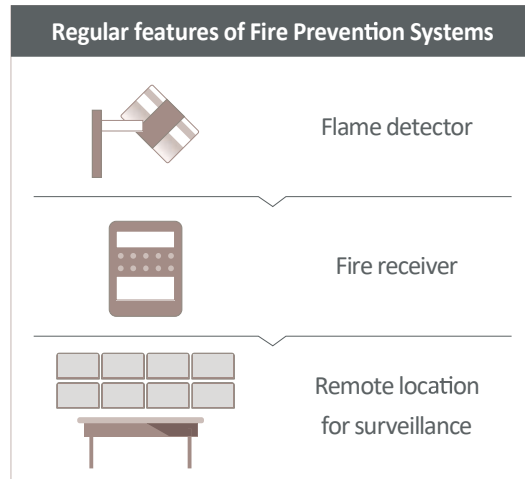
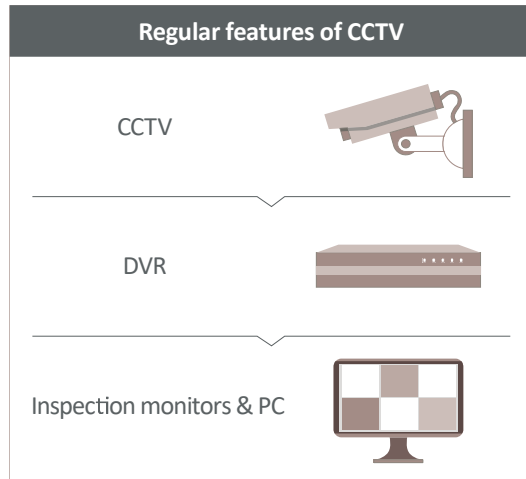
Integration of CCTV and Flame Detection!

Full HD footage
2 mega pixels

100 degrees point of
view Inspect 30M/50M

CMS Multi Monitoring

Record before and
after the fire



Rids of the discomfort of installing separate CCTV and flame detection system
Install CCTV and flame detection system, at the same time!

Integrated CCTV and flame detection technology



* Applicable Models

- Standard Type : DYM50-CAM-GE (Standard Type IR3), DYM30-CAM-GE (Standard Type UV/IR)
DYM50-CAM-GIP (Standard Type IR3), DYM30-CAM-GIP (Standard Type UV/IR)
- Ex Type : DYFD-EX1CV5 (Ex Type IR3), DYFD-EX2CV5 (EX Type UV/IR)

Experience the reasonably priced, integration of CCTV and flame detector

24 ; check CCTV footage from
all over the world

0 ; monthly fee

1 ; installation process,
easy and simple

DOYO CMS that can be checked in real time 24 hours

144 units can be monitored per screen!
Unlimited screen extension connections available!



Complete differentiation with technology that is unparalleled to existing off-the-shelf DVR-compatible CCTV-integrated flame detectors through self-development and self-server operation of the most suitable solution for the characteristics of the flame detector.

A leading company in the CCTV-integrated flame detector industry with superior technology compared to other companies!

CCTV-Integrated Innovative Solution Function



DOYO dedicated application development



DOYO dedicated server operation
(Not a rental server)



Developed CMS solution for DOYO



Detector position setting function
(Not a simple channel display function)



Firmware upgrade remote support automatic installation function

Major corporations that installed CCTV-integrated flame detectors

 삼성전기 Samsung Electro-Mechanics	 posco	 HYUNDAI L & C	
 중앙대학교병원 CHUNG-ANG UNIVERSITY HOSPITAL	 여수시 Yeosu Goblin Traditional Market	 영등포구 YEONGDEUNGPO-GU Yeongdeungpo Traditional Market	 빙그레 Binggrae
 ILWIN GLOBAL	 ILWIN Corp	 ILWIN BEARING	 농협 하나로마트 Nonghyup Hanaro Mart

IoT-Based LTE Wireless CAM Flame Detection System

The wireless CAM-type flame detection system utilizes a commercial LTE network to provide 2 million-pixel FULL HD quality video and fire detection signals for all locations with mobile phone coverage. This system enables rapid response to fire incidents, allowing for prompt intervention to mitigate human and property losses. In addition, real-time video surveillance allows for the monitoring of workers' potential hazards, further enhancing safety measures.

The flame detector provides the option to select between the IR3 IP CAM type (50M) and the UV/IR IP CAM type (30M) models.

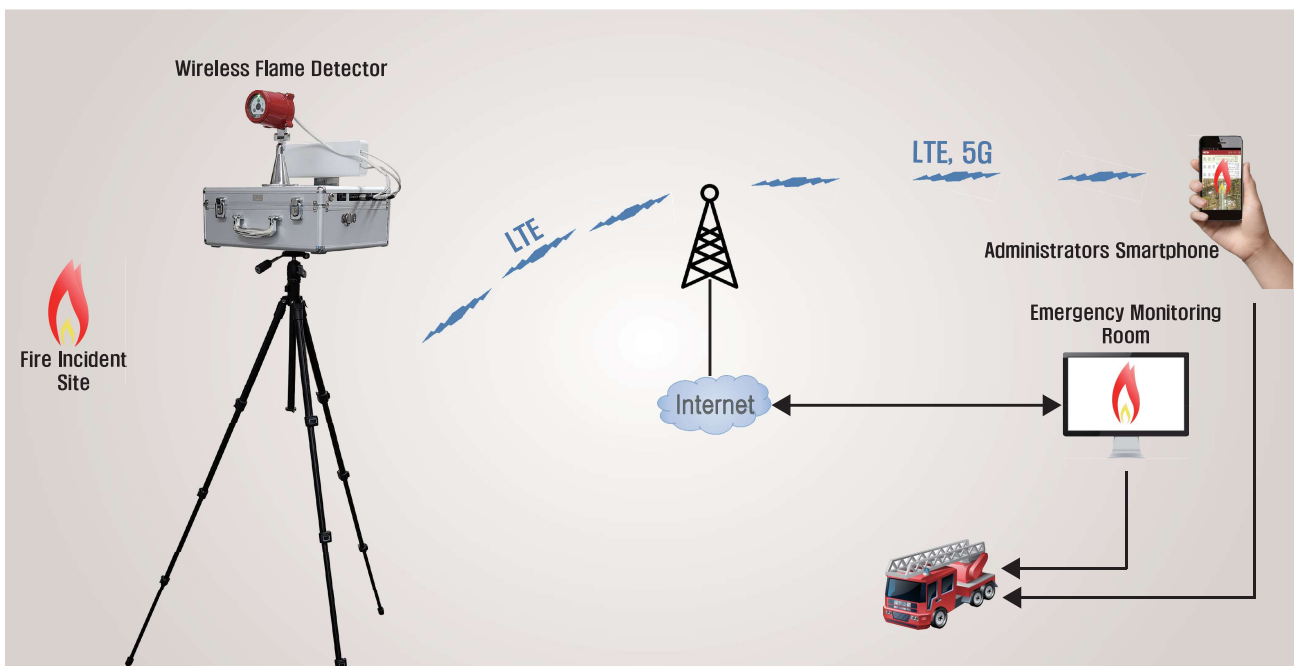


Product Features

- IoT-based wireless communication system with advanced 1:1 5G WIFI and LTE network technology
- Mitigating limitations and resolving blind spots in the establishment of fixed fire detection infrastructure
- Operable without mobility constraints through integrated battery power, providing independent power supply
- Facilitate on-site monitoring with Full HD (1920 x 1080) video support for superior visual clarity

Product Specifications

Specifications	IoT-Based LTE Communication/5G WIFI Wireless Fire Detection System
External Power	AC 220V (60Hz) (Charger: 12.6V)
Internal Power	Lithium Polymer Battery DC 12V (7A)
Resolution	1920 X 1080 (Full HD) 2-megapixels
Temperature	-20℃ ~ +70℃



DYM30-GE

The UV/IR flame detector rapidly analyzes the infrared (IR) and ultraviolet (UV) wavelength spectrum generated during a fire, promptly detecting the occurrence of a fire



(Patent Number: 10-1975861) Flame detector with multi-axis rotation structure

Product Features

- Dual Core MCU allows for faster and more accurate transmission of fire analysis and current output
- Lower risk of false data analysis and failures by applying multiple flame-analyzing algorithms simultaneously
- Allows easy installation at any desired angle by offering eight adjustable angles
- Inclusion of FAULT indicator feature for checking the presence of errors

Product Specification

Specification	Reusable type, Indoor and Outdoor use, Water-Proof type, Infraed. Ultraviolet Composite type
Sensor Distance	30M
Field of View (Angle)	100°
Arc Welding Separation	1M or more
Power	DC 24V±20%
Current	Standby State : -20mA working condition : 25mA
Temperature	-20℃ ~ 80℃
Size	62mm × 62mm × 126mm
LED COLOR	GreenLED: Ready/ RedLED: Fire/ Green,Red Blink: FAULT
Output Signal	Relay Signal(COM, NO, NC), 4~20mA

DYM50-GE

The IR3 Flame Detector rapidly analyzes the infrared (IR) wavelength spectrum generated during a fire, promptly detecting the occurrence of a fire



(Patent Number: 10-1975861) Flame detector with multi-axis rotation structure

Product Features

- Dual Core MCU allows for faster and more accurate transmission of fire analysis and current output
- Lower risk of false data analysis and failures by applying multiple flame-analyzing algorithms simultaneously
- Field of view increased from 90 degrees to 100 degrees to maximize surveillance coverage
- Allows easy installation at any desired angle by offering eight adjustable angles
- Inclusion of FAULT indicator feature for checking the presence of errors

Product Specification

Specification	Reusable type, Indoor and Outdoor use, Water-Proof type, Infraed. Composite type
Sensor Distance	50M
Field of View (Angle)	100°
Arc Welding Separation	3M or more
Power	DC 24V±20%
Current	Standby State : -20mA working condition : 25mA
Temperature	-20℃ ~ 80℃
Size	62mm × 62mm × 126mm
LED COLOR	GreenLED: Ready/ RedLED: Fire/ Green,Red Blink: FAULT
Output Signal	Relay Signal(COM, NO)

DYM50-GE2

The IR3 Flame Detector rapidly analyzes the infrared (IR) wavelength spectrum generated during a fire, promptly detecting the occurrence of a fire



(Patent Number: 10-1975861) Flame detector with multi-axis rotation structure

Product Features

- Dual Core MCU allows for faster and more accurate transmission of fire analysis and current output
- Lower risk of false data analysis and failures by applying multiple flame-analyzing algorithms simultaneously
- Allows easy installation at any desired angle by offering eight adjustable angles
- Inclusion of FAULT indicator feature for checking the presence of errors

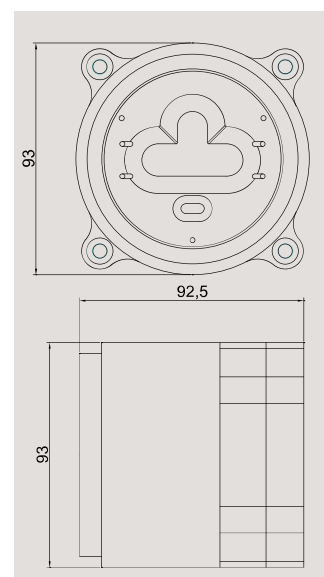
Product Specification

Specification	Reusable type, Indoor and Outdoor use, Water-Proof type, Infraed. Composite type
Sensor Distance	50M
Field of View (Angle)	90°
Arc Welding Separation	3M or more
Power	DC 24V±20%
Current	Standby State : -20mA working condition : 25mA
Temperature	-20℃ ~ 80℃
Size	62mm × 62mm × 126mm
LED COLOR	GreenLED: Ready/ RedLED: Fire/ Green,Red Blink: FAULT
Output Signal	Relay Signal(COM, NO)

DY-30-EX1 (DYFD-EX2NV3)

Explosion-Proof Rating : Ex d IIC T6 IP67
Ex tD A21 IP67 T85℃

The certified UV/IR Explosion-proof Flame Detector swiftly analyzes UV and IR wavelengths for rapid, reliable fire detection in hazardous environments with pressure and dust protection



Product Features

- Dual Core MCU allows for faster and more accurate transmission of fire analysis and current output
- Lower risk of false data analysis and failures by applying multiple flame-analyzing algorithms simultaneously
- Combination of analog and digital sensors for minimizing false fire alarms
(Patent Number: 10-1975861)
*Luminance Sensor equipped Flame Detector
- Inclusion of FAULT indicator feature for checking the presence of errors
- Bracket included

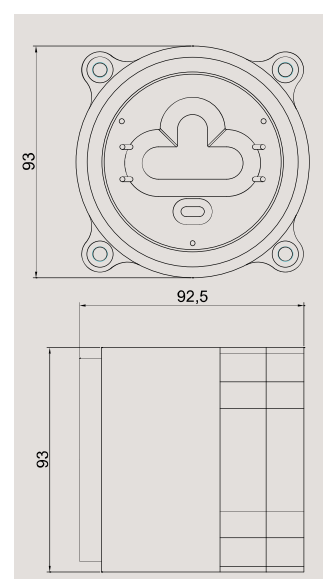
Product Specification

Specification	Explosion-Proof, Reusable, Indoor and Outdoor, Waterproof, Infrared
Sensor Distance	30M
Field of View (Angle)	100°
Arc Welding Separation	1M or more
Power	DC 24V±20%
Current	Standby State : -20mA working condition : 25mA
Temperature	-20℃ ~ 80℃
Size	93mm × 93mm × 92.5mm
LED COLOR	GreenLED: Ready/ RedLED: Fire/ Green,Red Blink: FAULT
Output Signal (Fire)	Relay Signal(COM, NO, NC), 4~20mA
Output Signal (Fault)	Relay Signal(COM, NO, NC), 0mA
Explosion-Proof Level	Ex d IIC T4 IP67, Ex d IIC T6 IP67 Ex tD A21 IP67 85℃

DY-50-EX1 (DYFD-EX1NV3)

Explosion-Proof Rating : Ex d IIC T6 IP67
Ex tD A21 IP67 T85℃

The certified IR3 Explosion-proof Flame Detector swiftly analyzes infrared (IR) wavelengths for rapid, reliable fire detection in hazardous environments with pressure and dust protection



Product Features

- Dual Core MCU allows for faster and more accurate transmission of fire analysis and current output
- Lower risk of false data analysis and failures by applying multiple flame-analyzing algorithms simultaneously
 (Patent Number: 10-1975861)
 *Luminance Sensor equipped Flame Detector
- Combination of analog and digital sensors for minimizing false fire alarms
- Inclusion of FAULT indicator feature for checking the presence of errors
- Bracket included

Product Specification

Specification	Explosion-Proof, Reusable, Indoor and Outdoor, Waterproof, Infrared
Sensor Distance	50M
Field of View (Angle)	90°
Arc Welding Separation	1M or more
Power	DC 24V±20%
Current	Standby State : -20mA working condition : 25mA
Temperature	-20℃ ~ 80℃
Size	93mm × 93mm × 92.5mm
LED COLOR	GreenLED: Ready/ RedLED: Fire/ Green,Red Blink: FAULT
Output Signal (Fire)	Relay Signal(COM, NO, NC), 4~20mA
Output Signal (Fault)	Relay Signal(COM, NO, NC), 0mA
Explosion-Proof Level	Ex d IIC T4 IP67, Ex d IIC T6 IP67 Ex tD A21 IP67 85℃

DYM30-CAM-GE

The Smart UV/IR Hybrid CAM Flame Detector containing both infrared and ultraviolet sensors equipped with an HD-grade 2-megapixel camera module, enables pre- and post-fire recording as well as 24/7 live monitoring of fire-prone areas, functioning as a CCTV camera during a fire



(Patent Number: 10-1975861) Flame detector with multi-axis rotation structure

Product Features

- Ability to monitor the site 24/7 through its HD CCTV monitoring system
- Combination of ultraviolet and infrared sensors to minimize false alarms caused by non-fire incidents
- Full recording of fire site allows for accurate analysis and diagnosis of the accident
- CMS communication system allows for real-time multi-monitoring
- Allows easy installation at any desired angle by offering eight adjustable angles
- Real-time feed and fire alarm delivered to mobile phone for quicker response to emergency situation
- Inclusion of FAULT indicator feature for checking the presence of errors

Product Specification

Specification	Reusable type, Indoor and Outdoor use, Water-Proof type, Infraed.Ultraviolet Composite type
Sensor Distance	30M
Field of View (Angle)	100°
Arc Welding Separation	3M or more
Power	DC 24V±20%
Current	Standby State : -20mA working condition : 25mA
Camera Quality	HD 2M pixel (Analog Type)
Temperature	-20℃ ~ 80℃
Size	62mm × 62mm × 126mm
LED COLOR	GreenLED: Ready/ RedLED: Fire/ Green,Red Blink: FAULT
Output Signal	Relay Signal(COM, NO)

DYM50-CAM-GE

The Smart IR3 CAM Flame Detector containing three infrared sensors equipped with an HD-grade 2-megapixel camera module, enables pre- and post-fire recording as well as 24/7 live monitoring of fire-prone areas, functioning as a CCTV camera during a fire



(Patent Number: 10-1975861) Flame detector with multi-axis rotation structure

Product Features

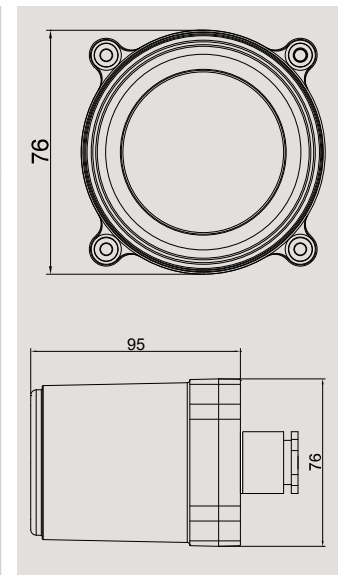
- Able to monitor the site 24/7 through its HD CCTV live stream
- Maximize reliability through the application of three infrared wavelength sensors
- Full recording of fire site allows for accurate analysis and diagnosis of the accident
- CMS communication system allows for real-time multi-monitoring
- Allows easy installation at any desired angle by offering eight adjustable angles
- Real-time monitoring via mobile phone, enabling immediate fire alarms and swift responses
- Inclusion of FAULT indicator feature for checking the presence of errors

Product Specification

Specification	Reusable type, Indoor and Outdoor use, Water-Proof type, Infraed type
Sensor Distance	50M
Field of View (Angle)	100°
Arc Welding Separation	3M or more
Power	DC 24V±20%
Current	Standby State : -20mA working condition : 25mA
Camera Quality	HD 2M pixel (Analog Type)
Temperature	-20℃ ~ 80℃
Size	62mm × 62mm × 126mm
LED COLOR	GreenLED: Ready/ RedLED: Fire/ Green,Red Blink: FAULT
Output Signal	Relay Signal(COM, NO)

DYM30-CAM-GIP

The Smart UV/IR IP CAM Flame Detector containing both infrared and ultraviolet sensors equipped with IP HD-grade 2-megapixel camera module, enables pre- and post-fire recording as well as 24/7 live monitoring of fire-prone areas, functioning as a CCTV camera during a fire



Product Features

- Equipped with Full HD IP CCTV for real-time monitoring and efficient fire prevention
- Combination of ultraviolet and infrared sensors to minimize false alarms caused by non-fire incidents
- Full recording of fire site allows for accurate analysis and diagnosis of the accident
- CMS communication system allows for real-time multi-monitoring
- Real-time feed and fire alarm delivered to mobile phone for quicker response to situation
- Inclusion of FAULT indicator feature for checking the presence of errors

Product Specification

Specification	Reusable, Indoor and Outdoor, Waterproof, Ultraviolet/Infrared
Sensor Distance	30M
Field of View (Angle)	100°
Arc Welding Separation	3M or more
Power	DC 24V±20%
Current	Standby State : -20mA working condition : 25mA
Temperature	-20°C ~ 80°C
Size	67mm × 67mm × 126mm
LED COLOR	GreenLED: Ready/ RedLED: Fire/ Green,Red Blink: FAULT
Output Signal (Fire)	Relay Signal(COM, NO, NC),
Camera Resolution	Full-HD 2MG (IP LAN)

DYM50-CAM-GIP

The Smart IR3 IP CAM Flame Detector containing three infrared sensors equipped with an HD-grade 2-megapixel camera module, enables pre- and post-fire recording as well as 24/7 live monitoring of fire-prone areas, functioning as a CCTV camera during a fire



Product Features

- Equipped with Full HD IP CCTV for real-time monitoring and efficient fire prevention
- Maximize reliability through the application of three infrared wavelength sensors
- Full recording of fire site allows for accurate analysis and diagnosis of the accident
- CMS communication system allows for real-time multi-monitoring
- Real-time feed and fire alarm delivered to mobile phone for quicker response to emergency situation
- Inclusion of FAULT indicator feature for checking the presence of errors

Product Specification

Specification	Reusable, Indoor and Outdoor, Waterproof, Ultraviolet/Infrared
Sensor Distance	30M
Field of View (Angle)	90°
Arc Welding Separation	10M or more
Power	DC 24V±20%
Current	Standby State : -20mA working condition : 25mA
Temperature	-20℃ ~ 80℃
Size	67mm × 67mm × 126mm
LED COLOR	GreenLED: Ready/ RedLED: Fire/ Green,Red Blink: FAULT
Output Signal (Fire)	Relay Signal(COM, NO, NC),
Camera Resolution	Full-HD 2MG (IP LAN)

DY30-CAM-EX

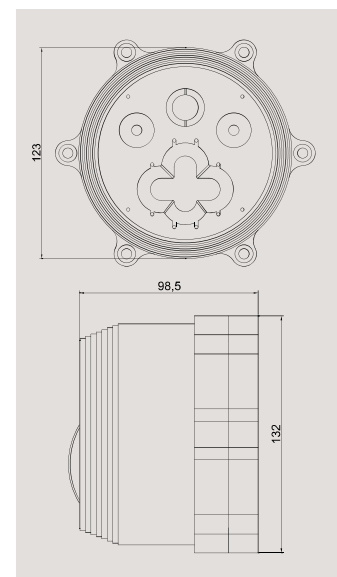
Official Model Name : DYFD-EX2CV5

**Explosion-Proof Rating : Ex d II C T6 IP67
Ex tD A21 IP67 T85℃**

The UV/IR Explosion-Proof Smart Flame Detector, with an HD 2-megapixel camera, monitors UV and IR wavelengths during fires. Offering pre- and post-fire recording and real-time monitoring in high-risk areas, it holds explosion-proof certification for hazardous environments, with pressurization and dust protection



Patent Number: 10-1975861 (Luminance Sensor Equipped Flame Detector)



Product Features

- Equipped with Full HD CCTV for real-time monitoring and efficient fire prevention
- Combination of ultraviolet and infrared sensors to minimize false alarms caused by non-fire incidents
- Full recording of fire site allows for accurate analysis and diagnosis of the accident
- CMS communication system allows for real-time multi-monitoring
- Real-time feed and fire alarm delivered to mobile phone for quicker response to emergency situation
- Inclusion of FAULT indicator feature for checking the presence of errors

Product Specification

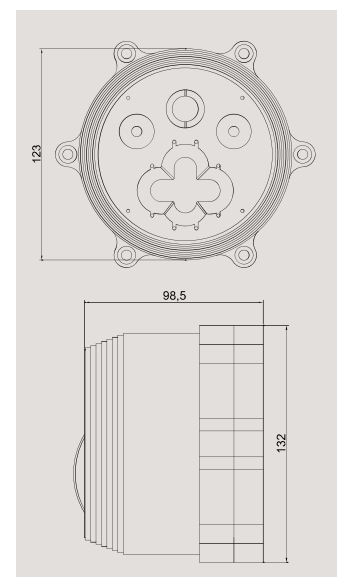
Specification	Explosion-Proof, Reusable, Indoor and Outdoor, Waterproof, Ultraviolet/Infrared
Sensor Distance	30M
Field of View (Angle)	100°
Arc Welding Separation	1M or more
Power	DC 24V±20%
Current	Standby State : -20mA working condition : 25mA
Temperature	-20℃ ~ 80℃
Size	123mm × 123mm × 98.5mm
LED COLOR	GreenLED: Ready/ RedLED: Fire/ Green,Red Blink: FAULT
Output Signal (Fire)	Relay Signal(COM, NO, NC), 4~20mA
Output Signal (Fault)	Relay Signal(COM, NC), 0mA
Explosion-Proof Level	Ex d II C T6 IP67 Ex tD A21 IP67 85℃
Camera Resolution	Full-HD 2MG (Analog)

DY50-CAM-EX

Official Model Name : DYFD-EX1CV5

**Explosion-Proof Rating : Ex d IIC T6 IP67
Ex tD A21 IP67 T85°C**

The IR3 Explosion-Proof Smart Flame Detector, with an HD 2-megapixel camera, monitors IR wavelengths during fires. Offering pre- and post-fire recording and real-time monitoring in high-risk areas, it holds explosion-proof certification for hazardous environments, with pressurization and dust protection



Product Features

- Equipped with full HD CCTV for real-time monitoring and efficient fire prevention
- Maximize reliability through the application of three infrared wavelength sensors
- Full recording of fire site allows for accurate analysis and diagnosis of the accident
- CMS communication system allows for real-time multi-monitoring
- Real-time feed and fire alarm delivered to mobile phone for quicker response to emergency situation
- Inclusion of FAULT indicator feature for checking the presence of errors

Product Specification

Specification	Explosion-Proof, Reusable, Indoor and Outdoor, Waterproof, Infrared
Sensor Distance	50M
Field of View (Angle)	90°
Arc Welding Separation	1M or more
Power	DC 24V±20%
Current	Standby State : -20mA working condition : 25mA
Temperature	-20°C ~ 80°C
Size	123mm × 123mm × 98.5mm
LED COLOR	GreenLED: Ready/ RedLED: Fire/ Green,Red Blink: FAULT
Output Signal (Fire)	Relay Signal(COM, NO, NC), 4~20mA
Output Signal (Fault)	Relay Signal(COM, NC), 0mA
Explosion-Proof Level	Ex d IIC T6 IP67 Ex tD A21 IP67 85°C
Camera Resolution	Full-HD 2MG (Analog)

DVR (4CH, 16CH)

DVR that stores the data and footage from fire site and deliver video, message, and email to mobile device using IOT technology (only compatible with CCTV installed Flame Detector)



Patent 10-1993660 (Fire Prevention Multipurpose Receiver)

Product Features

- HD Analog Camera Auto Recognition (1080P, 720P, 960H, TVI-3M/4M camera compatible)
- 4K Ultra HD Video (3840 x 2160) for 8CH/16CH
- Full HD Real-Time Recording and Monitoring
- H.264 High Profile Recorder
- 4/8/16 BNC Cable Compatible
- Spot Out, HD Output, VGA Compatible
- Recording Mode, Manual Mode, Full-time, Schedule, and Motion Direction Available
- SATA Communication
- RS485 Communication for PTZ Control
- Various Software Support (Mobile, Push Alarm)
- Spot Out, HD Output, VGA Compatible
- UTC Support
- Dual Streaming
- 2x, 4x, 8x Zoom Available
- Sequence ON/OFF (Auto Monitor Change)

Product Specification

Size/Channel	1U, 4CH / 16CH
Decoder	TVI+AHD+960H+CVI
Recording/ Playback Speed@1080P	240/200fps
Recording/ Playback Speed@720P	240/200fps
Video Input Terminal	8EA / 16EA
SATA INTERFACE	1EA / 4EA
USB	2.0 X 1, 3.0 X 1
HDMI, VGA	YES
RS-485	2EA (PTZ, Keyboard Controller)

NVR

(16CH, 32CH)

NVR that stores the data and footage from fire site and deliver video, message, and email to mobile device using IOT technology(only compatible with CCTV installed Flame Detector)



Patent 10-1993660 (Fire Prevention Multipurpose Receiver)

Product Features

- 128 network remote access
- Network Porocall : TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
- Network Interface :
2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
- H.265+/H.265/H.264+/H.264 codec Support
- Max 1Ch@32 MP/2Ch@12 MP/16Ch@1080p Recording

Product Specification

IP Video input	Up to 12 MP resolution
HDMI output	1920×1080/60Hz, 1280×1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
VGA output	1920×1080/60Hz, 1280×1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
Storage method	H.265+/H.265/H.264+/H.264/MPEG4
Storage resolution	32 MP/24 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA /4CIF/DCIF/2CIF/CIF/QCIF
Serial port	1 RS-485 (half-duplex), 1 RS-232
SATA	4 SATA Interface
eSATA (option)	1 eSATA Interface
Storage Support Capacity	MAX 10TB HDD 지원

FLAME DETECTOR TEST DEVICE

A specialized test equipment for flame detectors, designed for conducting flame detection tests in environments where real fire cannot be utilized. Capable of conducting tests for both UV/IR and IR3 types of flame detectors. In the case of third-party flame detectors, testing may not be feasible.



Available Output :

- Eight adjustable flicker modes
- Compatible with both UV/IR and IR3 flame detectors
- Laser point output for aiming

FLAME DETECTOR POWER

Tailored for flame detectors, the dedicated power supply unit provides regulated voltage and current outputs, ensuring optimal performance in fire detection recognition



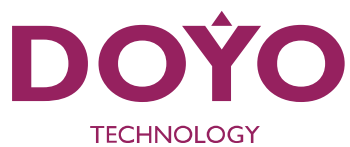
Smaller Site Type
3A, 5A



Production Site Type
3A,5A,10A



Rack Mount Type
10A, 20A



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