SD-32 Series
Multi-functional Smoke Detector

- Compliant with UL 217 8th Edition standards
- Prevention against nuisance and false alarms caused by cooking and steam
- Polyurethane foam detection in fast moving fire and slow smoldering burn
- Patent-pending technology ensures High tolerance against dust accumulation to prevent false alarms
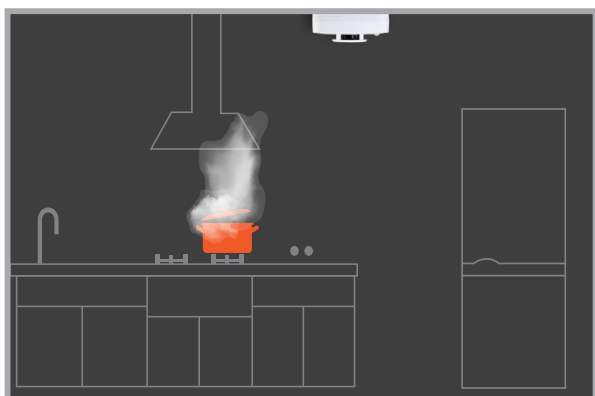
SD-32 Series
Multi-functional Smoke Detector

The SD-32 series, a next-generation multi-functional optical smoke detector compliant with UL 217 8th Edition standards, can distinguishes actual fire and smoke from daily cooking smoke and steam, minimizing inaccurate alerts. It can also detect Polyurethane foam in fast-moving fires and slow smoldering burns. Moreover, the SD-32's patent-pending technology enables it to operate reliably even in environments with substantial dust accumulation, avoiding false alarms. It also sends event codes to notify installers when maintenance is required.

Additionally, the SD-32 delivers optimal performance in detecting fire and rate-of-rise heat detection. The optional built-in PIR motion sensor enhances functionality by detecting movements for custom scenes, such as lighting up hallways at night or saving energy. Some models also come with emergency light, which will turn on to alert users that the system is alarming. As a result, the series can help build a safe, comfortable lifestyle and give you a peace of mind.
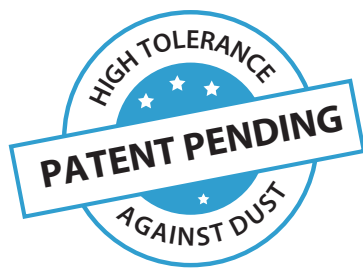
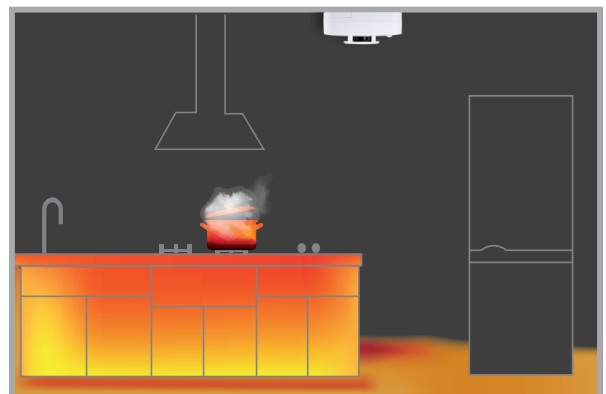**Recognize fire and smoke without setting off nuisance alarms from cooking**

Differentiate between fast moving fire and slow smoldering burn, including flaming polyurethane foam

Serial connection enables all connected smoke alarms to sound together when one of them is triggered

Patent pending technology enables high tolerance against dust accumulation to prevent false alarms, while sends event codes to notify installers when maintenance is required.

Rate-of-rise heat detection

PIR motion sensor for home automation lighting control

Emergency light provides illumination in environment of darkness or dim light

Other Features

- Multiple optical sensor capable of preventing false alarms caused by cooking nuisance
- Polyurethane foam detection in fast moving fire and slow smoldering burn
- High tolerance against dust accumulation to prevent false alarms (patent pending).
- The emergency light turns on to alert users that the system is alarming (SD-32-HME/-HME-SC only)
- High-voltage current surges Immunity
- Auto-calibration every month to re-adjust detection threshold value
- Self-diagnostics function to ensure optimal performance
- Loud 85dB Siren for audio alert

- Interconnection function allows all connected smoke alarms to sound together when one of them is triggered
- Randomized supervision signals to check system integrity
- Rate-of-rise heat detection when temperature exceeds 57.25°C or rises by 8.5°C per minute (optional)
- Built-in PIR motion detects movements and supports scene creation (optional)
- EN14604 certified
- Approved by UL 217 8th Edition testing standards

Specifications

SD-32-(H)(M)(E)-(SC)

RF Frequencies	433 MHz / 868MHz
Power Source	3V , CR123 Lithium battery x 3 3V , Alkaline battery x 2
Battery Life	**Lithium battery models**: SD-32-(H): 10 yrs / SD-32-M: 9 yrs / SD-32-HM: 9 yrs / SD-32-(H)(M)-SC: 4.5 yrs* **Alkaline battery models**: SD-32-(H): 4 yrs* / SD-32-(H)(M)(E): 3 yrs*
Audible Output	85dBA at 3m
Temperature Sensitivity	±1°C
PIR Motion Detection Range	Up to a radius of (6 meters) (at 3 meter mounting height**) (SD-32-M / SD-32-HM only)
Operating Temperature	-10°C to 45°C (14°F to 113°F)
Operating Humidity	Up to 85% non-condensing
Dimensions	105mm x 105mm x 41mm

SD-32-(H)(M)(E)-SC-AC

RF Frequencies	433 MHz / 868 MHz
Power Source	100-240AC, 50/60Hz
Backup Battery	3.6V, 200mAh NiMh battery pack
Battery Battery Life	1 months
Audible Output	85dBA at 3m
Temperature Sensitivity	±1°C
PIR Motion Detection Range	Up to a radius of 6 meters (at 3 meter mounting height**) (SD-32-M-SC-AC / SD-32-HM-SC-AC only)
Operating Temperature	-10°C to 45°C (14°F to 113°F)
Operating Humidity	Up to 85% non-condensing
Dimensions	105mm x 105mm x 41mm

*Note: Actual battery life may vary with product settings, operating environment, and usage. Emergency light does not affect the battery life.
**Note: Mounting above 3 meters may affect detection performance.

Ordering Information

SD-32	Battery-powered Smoke Detector
SD-32-H	Battery-powered Smoke Detector with Heat Detector
SD-32-M	Battery-powered Smoke Detector with PIR Motion Sensor
SD-32-HM	Battery-powered Smoke Detector with Heat Detector and PIR Motion Sensor
SD-32-HME	Battery-powered Smoke Detector with Heat Detector, PIR Motion Sensor, and emergency light
SD-32-H-SC	Battery-powered Smoke Detector with Heat Detector and Interconnection function
SD-32-M-SC	Battery-powered Smoke Detector with PIR Motion Sensor and Interconnection function
SD-32-HM-SC	Battery-powered Smoke Detector with Heat Detector, PIR Motion Sensor, and Interconnection function
SD-32-HME-SC	Battery-powered Smoke Detector with Heat Detector, PIR Motion Sensor, emergency light and Interconnection function
SD-32-SC-AC	AC-powered Smoke Detector with interconnection function
SD-32-H-SC-AC	AC-powered Smoke Detector with Heat Detector and interconnection function
SD-32-M-SC-AC	AC-powered Smoke Detector with PIR Motion Sensor and Interconnection function
SD-32-HM-SC-AC	AC-powered Smoke Detector with Heat Detector, PIR Motion Sensor and Interconnection function
SD-32-HME-SC-AC	AC-powered Smoke Detector with Heat Detector, PIR Motion Sensor, emergency light and Interconnection function