THE FIRE KNIGHT PROTECTOR IS A UNIQUE FIRE DETECTION SYSTEM

Operating autonomously, the Protector system ensures peace of mind regardless of your location.

Capable of executing multiple functions simultaneously, the system swiftly identifies fires, activating itself instantly while promptly alerting the relevant authorities.

Each Protector system has the capability to identify, notify, and extinguish fires within medium to large spaces throughout your residence or workplace.

By utilising an encapsulating liquid fire suppressant instead of water, the Protector system achieves unparalleled effectiveness.
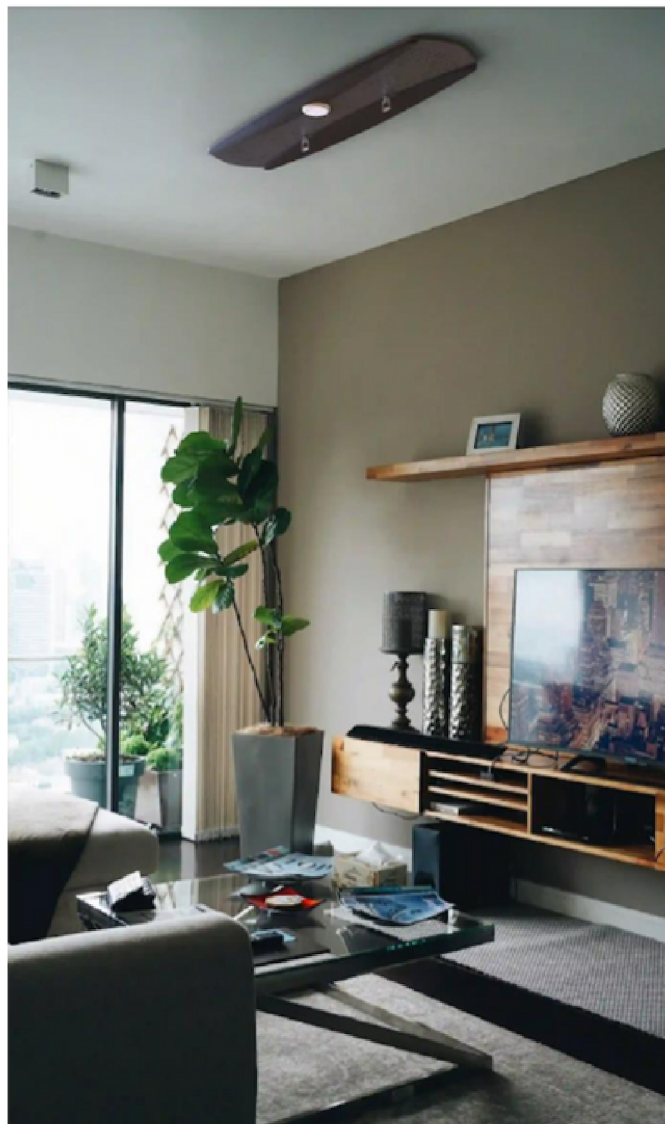
A small investment for peace of mind

Introducing the Fire Knight Protector System, a groundbreaking innovation safeguarding lives and assets through an automated fire suppression mechanism. By integrating advanced sensor technologies, it pre-emptively identifies potential hazards from gas and flames, triggering the system upon confirming the presence of a fire threat. This eradicates the nuisance of false alarms often triggered by conventional smoke detectors. Unlike traditional sprinkler systems that primarily react to extreme heat, our system ensures swift action, preventing situations where ceiling fires have already ignited by the time activation occurs.

OUR STRENGTHS

The Protector's unique system identifies flames in their nascent stages. Upon detecting a fire threat, an integrated camera captures an image pinpointing the fire's origin. Instantly transmitted to the command centre, this image prompts alerting the relevant authorities. Simultaneously, the Protector activates, deploying an environmentally friendly fluid to suppress or extinguish the fire before it can escalate. Consequently, the Fire Knight Protector conserves valuable community resources, such as fire, ambulance, and police, by minimising false alarms.
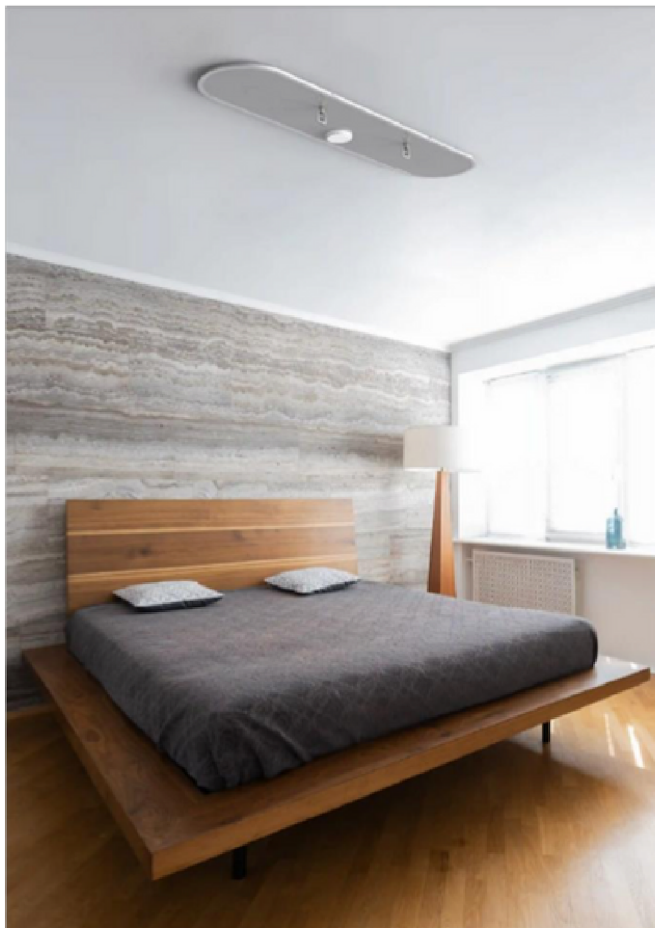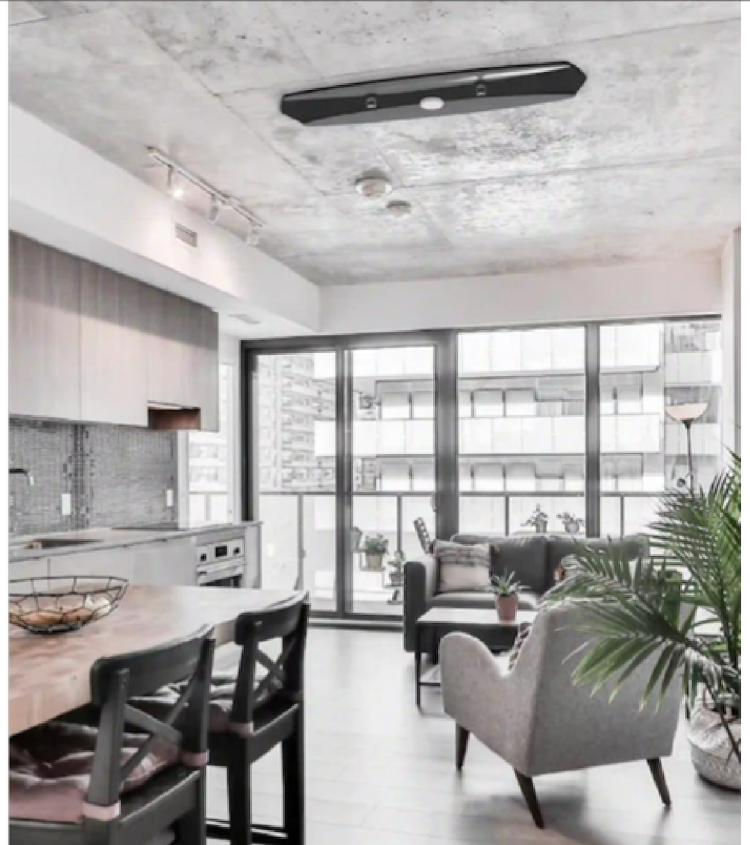
SUPERIOR TECHNOLOGY

Integrated sensor technology seamlessly transmits notifications to the 24/7 manned command centre* upon activation. The Protector System employs a range of sensors, including flame sensors, gas sensors, Volatile Organic Compound (VOC) sensors, and rate of rise heat detectors, meticulously calibrated to detect potential threats.

Upon flame detection by the sensors, the system triggers the release of a blend of water and fire suppressant fluid. Subsequently, the system alerts the command centre as the primary point of contact, which in turn notifies emergency services and the registered contact of the home or business.

In the event of a gas or VOC sensor activation, the command centre initiates a call to the resident. Similarly, abnormal heat rise detected by rate of rise heat detectors prompts a call to the resident. The primary sensor, the flame sensor, is finely tuned to detect flames ranging from 200mm to half a metre in height, effectively avoiding false readings from smaller sources such as candles.

Utilising a built-in 4G LTE SIM module*, the system operates independently of home or private Wi-Fi networks, ensuring reliable connectivity in any circumstance. You have the option to select between 10 litre and/or 15 litre capacity variants to suit the size of your room.

Experience the assurance of a fully autonomous fire protection system, pre-filled with non-toxic, fully biodegradable fire suppressant.
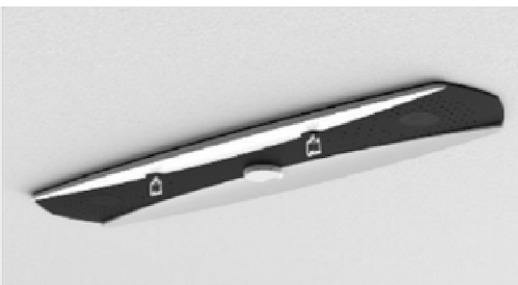
*data cost to end user
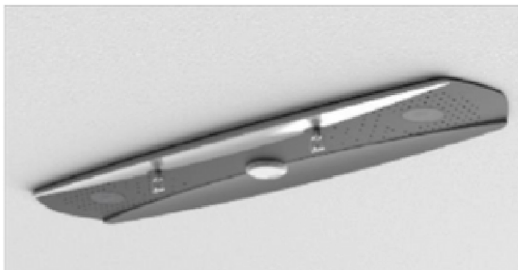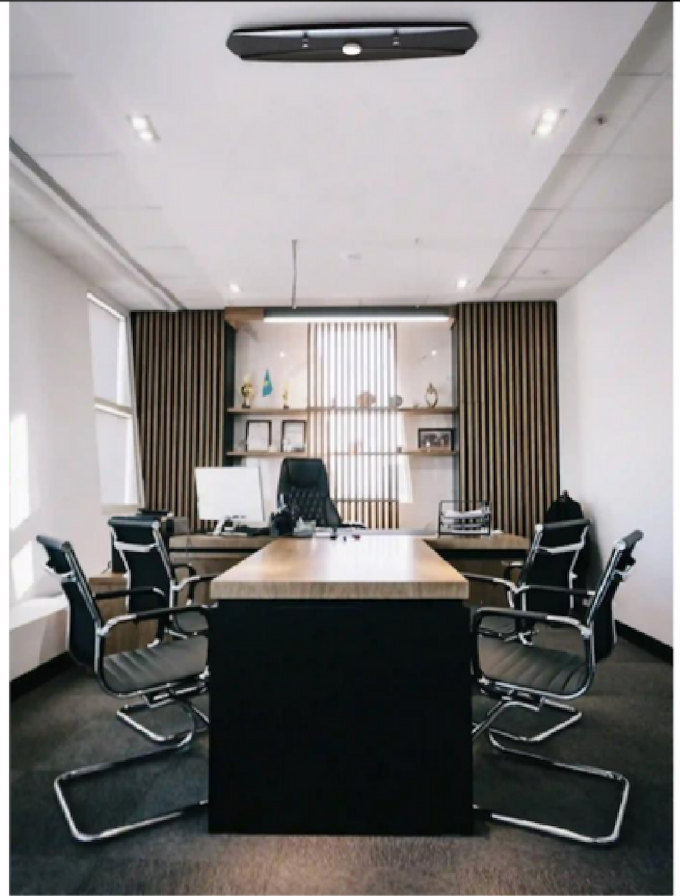
Every resident or owner is provided with an app that keeps them informed about system alerts and maintenance needs. This app will send notifications with regards to necessary servicing*, and alerts generated by the system.

AESTHETICALLY APPEALING

The Fire Knight Protector system is meticulously crafted to seamlessly blend into any environment, be it the living room, primary bedroom, kitchen, or dining area. Its sleek, contemporary design facilitates effortless integration into both residential and commercial buildings. The Protector offers flexible installation options: it can be hardwired by a licensed electrical contractor or operated using its 10000mAh battery.

The Protector can be installed into existing buildings, or incorporated into house plans in the design process.

INSTALLATION IS EASY

For homeowners opting for battery operation, The Fire Knight Protector system can be self-installed without the need for electrical or water connections. The unit comes with detailed installation instructions for ease of setup. However, industry standards and government regulations mandate regular battery replacements and system maintenance.

Servicing procedures must adhere to the regulations of the customer's state, territory, and country. It is recommended to consult with your distribution agent regarding these requirements.
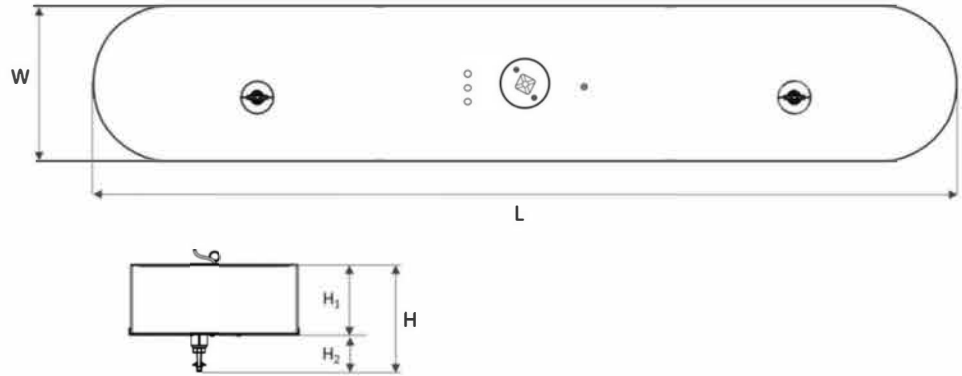
*service cost to end user

Fire Rating Class:

Lithium-ion Battery Fires
Class A Fires - Ordinary Combustibles
Class B Fires - Flammable and Combustible Liquids
Class F Fires - Cooking Oils and Fats (Limited)

Technical Specifications

Model	MK03	MK02
Capacity	15L	10L
Fire Extinguisher Type	Water & Nitrogen	Water & Nitrogen
Expelling Agent	F500 encapsulator	F500 encapsulator
Extinguisher Design	Ceiling mounted	Ceiling mounted
Nozzle	2x 120° *UL certified*	1x 120° *UL certified*
Average Discharge Range	6.5m x 3.5m	3.5m x 3.5m
Average Discharge Time	15-20 secs	15-20 secs
Operating Temperature	Ambient	Ambient
Operating Pressure	12 Bar	12 Bar
Test Pressure	18 Bar	18 Bar
Operating Height	2.4 - 3.0m	2.4 - 3.0m
Test Specifications & Approvals	ASME sec. VIII Div-1	ASME sec. VIII Div-1
	ASME sec. VIII Div-2	ASME sec. VIII Div-2
	EN 13445	EN 13445
	PD5500	PD5500
	AS3978:2003 (PROC 4085)	AS3978:2003 (PROC 4085)
	AS4041:2006 (6.8)	AS4041:2006 (6.8)
	ASME B31.3:2014 K345.4	ASME B31.3:2014 K345.4
	ASME B31.3:2014 K345.5	ASME B31.3:2014 K345.5
Dimensions		
L	1665mm	1165mm
W	310mm	310mm
H	225mm	225mm
H_1	145mm	145mm
H_2	80mm	80mm
Total Weight	44.5kg	34.5kg
Battery	2x 3.7V 10000mAh lithium-ion	2x 3.7V 10000mAh lithium-ion
Adapter Power	5V 3A AC 220V	5V 3A AC 220V
Camera	Color CMOS 2.0 MegaPixel	Color CMOS 2.0 MegaPixel
Flame Sensor	150,000 V/M, 100° Wide Field	150,000 V/M, 100° Wide Field
VOC Sensor	MOx based, low power	MOx based, low power
Temperature Sensor	±0.1 °C	±0.1 °C
Cellular Communication	LTE Cat 1 module, suitable for LTE / GSM network and Wi-Fi option	LTE Cat 1 module, suitable for LTE / GSM network and Wi-Fi option