



THE FIRE KNIGHT

PROTECTOR SERIES

Welcome to The Fire Knight
Your Trusted Fire Protection Company

Your safety is our priority

Intelligent Fire Detection





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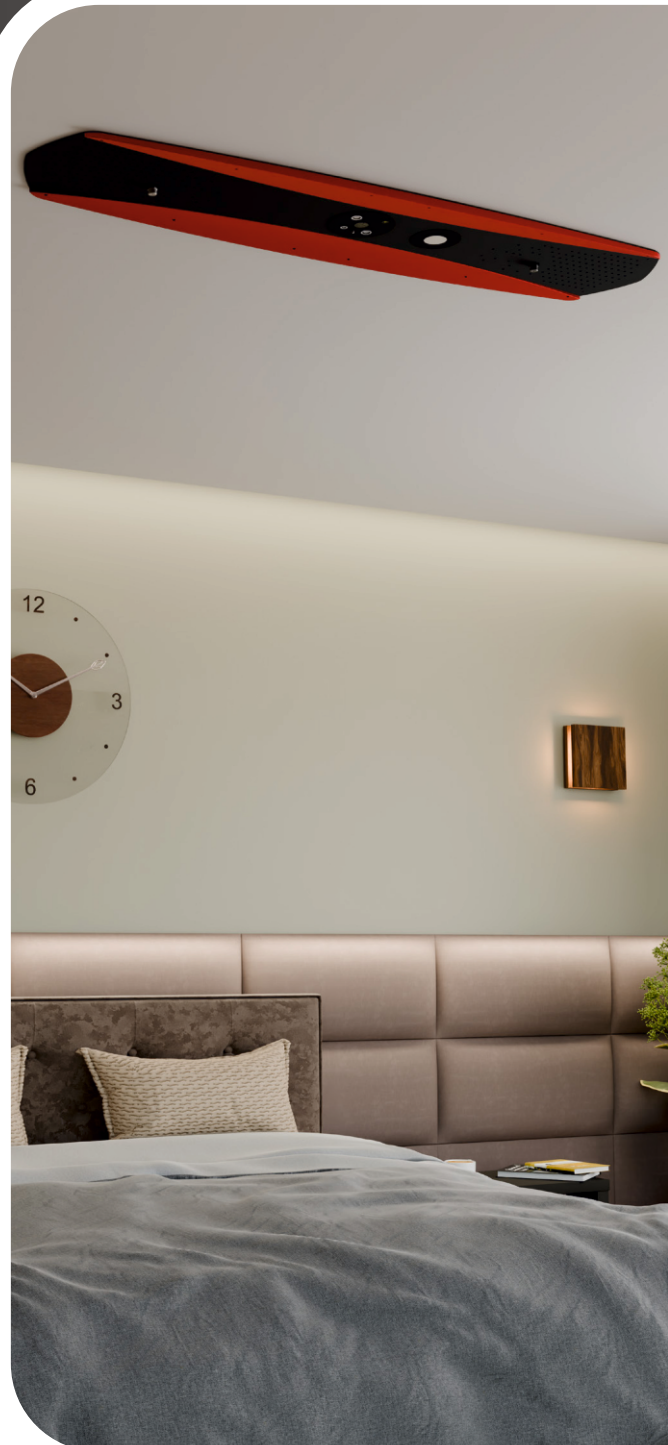
PROTECTOR SERIES

**Early detection.
Instant response.
Complete peace
of mind.**

The Fire Knight Protector Series is a self-contained fire detection and suppression system designed to stop fires before they spread. Ideal for homes, small businesses, and sensitive environments, it combines advanced detection, automatic suppression, and smart connectivity in one sleek unit.

Fast, Intelligent Fire Detection

Using a combination of flame detection, rate-of-rise heat sensing, and gas monitoring (CO, CO₂, Methane), the Protector identifies fire threats in their earliest stages. This ensures it activates quickly and only when a real fire is present, helping prevent false alarms.



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Visual Verification

Before suppression begins, the built-in camera captures an image of the area, providing valuable evidence for insurance, investigation, or peace of mind.

Automatic & Remote Activation



Automatic Mode – Fires are detected, confirmed, and suppressed instantly.



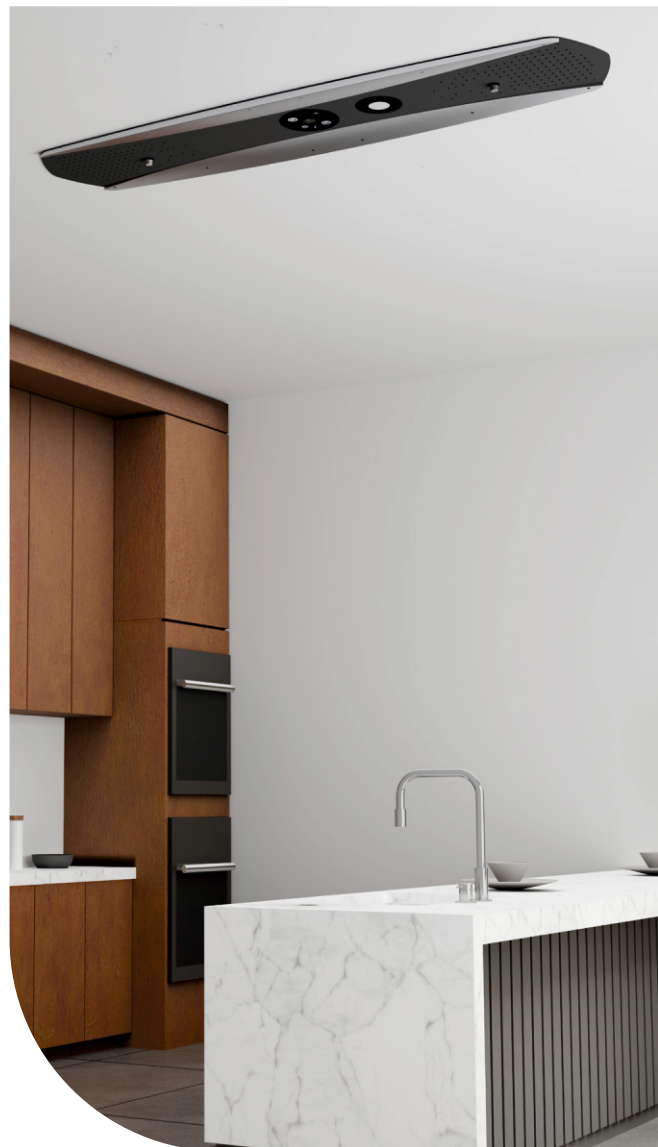
Remote Activation – Trigger the system from anywhere via mobile app or desktop.



Control individual units or all units in a multi-system setup.



Ideal for large properties or for users with limited mobility.



Real-Time Alerts & Monitoring



Instant notifications via app, SMS, or email.



Optional 24/7 monitoring integration with contracted command centres.



LIVE

View live system status, connection health, and event history from your phone or computer.

Easy Installation & Adaptable Design



Fully self-contained – no plumbing or permanent wiring required (plugs into a standard outlet).



Blends seamlessly into bedrooms, kitchens, living rooms, offices, hallways, and other indoor spaces.

Built to Last

- ✓ Marine-grade stainless steel components.
- ✓ Battery backup ensures operation during power outages.
- ✓ Operating range from -20°C to $+60^{\circ}\text{C}$.

Where the Protector Excels

Residential Homes

Bedrooms, kitchens, living areas

Small Businesses

Offices, reception areas, storage rooms

Community Spaces

Schools, aged care facilities, libraries

Sensitive Environments

Museums, archives, heritage buildings

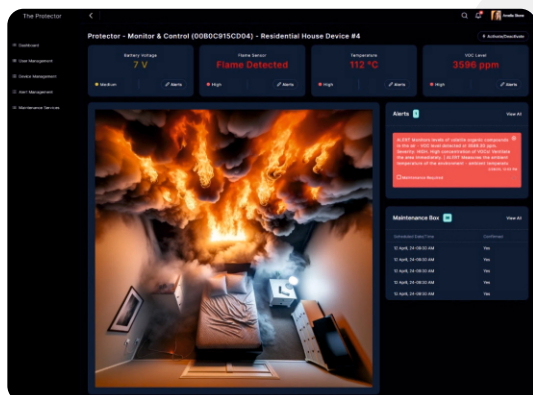
Key Additional Safety Features

Audible Alarm

Built-in siren alerts occupants during a fire event.

Emergency Light

Activates during suppression to improve visibility in smoke or darkness.



Images are for illustration purposes only and may not reflect actual software visuals

Maintenance

- ✓ Battery replacement every 2.5–3 years, or when prompted by the system.
- ✓ Fluid recharge as per fluid manufacturer's guidelines.
- ✓ System pressure and status are automatically checked and displayed in the app.

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Certifications & Standards

**Designed and Tested
in Accordance With ASME**
American Society of Mechanical
Engineers (Pressure Vessels)

EN 13445
European Standard
for Unfired Pressure
Vessels

PD 5500
British Standard for
Pressure Equipment

NATA
Independent testing & accreditation
(Australia, ILAC MRA recognized)

CE
European Safety, Health &
Environmental Compliance

Independently tested by Halliwell Fire Safety — an internationally recognised fire safety engineering consultancy operating in Australia, NZ, Asia, UK, Europe, and the USA. Halliwell's testing found "flames were generally knocked down within seconds, with remaining embers cooled to prevent re-ignition."

Peace of Mind in Every Room

With automated suppression, remote activation, integrated image capture, audible alarm, and emergency lighting, the Protector Series delivers unmatched safety for homes and small businesses. Protect what matters most — before the fire spreads.

Disclaimer: The Fire Knight systems are designed as fire suppression aids and are not classified as fire extinguishers. They assist in the detection, alerting, and suppression of fires to minimise damage and provide additional response time. While engineered to suppress fires effectively, they may not fully extinguish all fire types or scenarios. Fire classifications and electrical use capabilities depend on the suppressant used and local certifications.



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Technical Specifications – PROTECTOR 15L

Parameter	Specification	Notes
Model	Protector 15L Autonomous Fire Suppression System	Ceiling-mounted
Agent	Water-based suppressant, pressurised with nitrogen or compressed air. Any water-based liquid may be used; recommended option is water with encapsulator additive (e.g., F-500 EA).	Use not restricted to recommended agent
Fire Classes	Class A, Class B (regional approvals may include Class F)	Confirm local certification
Electrical Use	Suitable for live electrical equipment up to 1000 V at 1 m when the complete installed system has passed a 35 kV dielectric test to EN 3-7 or equivalent. Otherwise, de-energize before application.	—
Coverage	Up to 6 × 6 m (36 m ²) at 2.4–3.0 m mounting height	Dual 110° full-cone or equivalent low-pressure water-mist nozzles, 1 m centre spacing, 12–15 bar operating pressure, unobstructed ceiling
Response Logic	RoR ≥ 0.5°C/sec over 10s, flame detection, 60°C failsafe	Both/single sustained triggers
Discharge Duration	~25 seconds @ ~28.8 L/min total (≈14.4 L/min per nozzle)	Dual fixed-position nozzles
Working Pressure	12–15 bar	Hydrostatic test: 2.5×
Tank Material	Marine-grade stainless steel 316 (tank) with 304 stainless steel components	Marine grade
Dimensions (H×W×D)	1962 × 480 × 236 mm	Gross: 50 kg / Net: 35 kg
Operating Temp	–20°C to +60°C	—
Connectivity	Wi-Fi, 4G SIM, LoRa (optional), AC 100–240 V, DC 9–24 V	Integrated AC/DC barrel
Backup Power	4 × 5000 mAh rechargeable batteries	Replace every 2.5–3 years
Battery Alerts	Low-battery alert via dashboard	—
Audible Alarm	100 dB internal sounder	—
Emergency Light	160 lm brightness, 3 hrs emergency time, CE certified	—
Monitoring	Optional back-to-base	Snapshot before activation
Certifications	CE, ASME, EN 13445, NATA, IEC 62368-1, AS/NZS 62368.1, EN 62368-1, UL 62368-1, CSA C22.2 62368-1	—
Warranty	10 years (piping), 3 years (electronics)	—

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Contact Us:

Australia

Phone number: +61 1300 359 501

info@thefireknight.com

USA

Phone number: 800-673-0857

info@thefireknight.com

Europe

info@thefireknight.com

Canada

Phone number: 800-673-0857

info@thefireknight.com

Asia

Phone number: +91 9714269147

info@thefireknight.com

TFK offices are located worldwide, including

- Australia
- North America
- Europe



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