

PROTECTGLOBAL.COM

IMPORTANT INFORMATION FOR USERS



SECURED IN SECONDS

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Stop the burglar in a few seconds with a PROTECT Fog Cannon®

Thank you for buying this PROTECT Fog Cannon®. These instructions are intended for everyday users of the fog-protected premises, and for the security supervisor with responsibility for the entire alarm installation. Please read the following pages carefully to ensure maximum security, satisfaction and product lifetime.

PROTECT A/S is a wholly Danish-owned firm, with production facilities in Aarhus - the second-largest city in Denmark. The company is the world's biggest manufacturer of Fog Cannon™ products for burglary protection, and distributes to more than 50 countries.

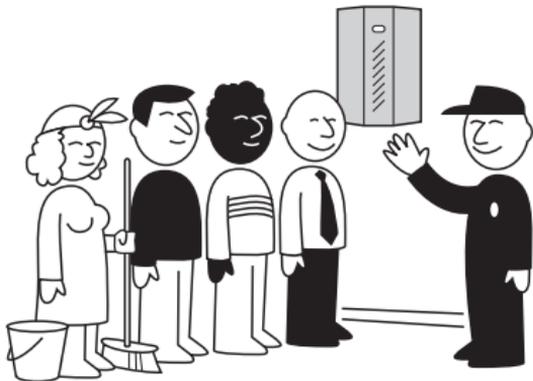
A Fog Cannon™ is intended to serve as a supplementary security product for an alarm system. A Fog Cannon™ is a generator that uses a heating element to convert harmless liquid into a thick, dry, white fog-like cloud. This fog has a disorienting effect - and you cannot steal what you cannot see... Security fog protection helps prevent theft, vandalism and robbery.

NB! PROTECT Fog Cannon® products must only be installed and serviced by a qualified alarm fitter or electrician.

For additional information, see www.protectglobal.com.

Before use

Have you and/or others been instructed in the correct use of the alarm system and fog protection set-up? Before the alarm fitter leaves the premises, all users should have received instruction in how the security fog system works.



DON'T FORGET!

Have you or your alarm company remembered to inform the local police and fire service about your fog protection installation?

Make sure to inform your neighbours, if any, that you have installed security fog protection.



Have you or your alarm company remembered to place warning labels on your windows and doors? The yellow labels help prevent break-ins, and provide valuable information to cleaning staff and others.

We recommend that you enter into an annual service agreement with your alarm company that involves testing the Fog Cannon™. See elsewhere in these instructions.

Operation

The Fog Cannon™ is primed whenever the alarm system is activated. If you then enter the secured area, both alarm and Fog Cannon™ will be triggered.

When you disconnect alarm, the Fog Cannon™ will be disconnected automatically.

| | |
|------------------|---------------|
| PROTECT Xtratus® | = 8 min. |
| PROTECT FOQUS™ | = 7 min. |
| PROTECT QUMULUS® | = 8-10 min. |
| PROTECT 600i™ | = 10-15 min. |
| PROTECT 1100i™ | = 15-25 min.* |
| PROTECT 2200i™ | = 30-45 min.* |

**We recommend that you keep the power connected 24/7.*

Depending on the installation method and the Fog Cannon™ model, it may take up to 45 minutes for the unit to become warm enough to generate fog. We recommend that you keep your Fog Cannon™ products warmed up at all times so they are ready to generate fog as soon as the alarm system is activated.

Every Fog Cannon™ is monitored by the alarm company from which it was purchased (or the relevant subcontractor). The alarm company can register activation of the Fog Cannon™, attempted vandalism and errors.

An authorised alarm fitter must be engaged to set the fogging time, etc. and to replace the fog fluid container (however, end users themselves can replace the fluid container in PROTECT QUMULUS® models manufactured after 1 September 2014). The same as for model Xtratus®.



QUMULUS®

Scan the codes with a smartphone to check how to replace the fluid container in a QUMULUS® model manufactured after 1 September 2014 or a Xtratus®.



Xtratus®

Cleaning and maintenance

Clean PROTECT Fog Cannon® products with a damp cloth without any cleaning agents, chemicals or solvents.

If you did not air the premises within 1 hour of a Fog Cannon™ being activated, you should wipe down all horizontal surfaces with a damp cloth without any cleaning agents, chemicals or solvents. For additional details, see pages 10 and 11.

End users themselves can change the fluid container in PROTECT QUMULUS® models manufactured after 1 September 2014. The same as for model Xtratus®. Fluid containers in all other models must only be replaced by an authorised alarm fitter. See the previous section for details.

A safe product - guaranteed

Quality products from PROTECT™ are CE labelled and comply with the applicable EU standards concerning Fog Cannon™ units. This means that fitters and users of the equipment can be sure they are working with a safe product. Find out more in the ‘Warnings’ section of these instructions.

Several test institutes in Denmark and abroad (including Det Norske Veritas, the Danish Technological Institute and Eurofins) have tested and approved PROTECT™ products, and confirmed that the fog is completely harmless to people, animals, electronic devices and furnishings.

You can see the certificates online at www.protectglobal.com.

At the same time, PROTECT™ products are so operationally stable and reliable that they come with a warranty of five years*.



**Products are supplied with a 5 year warranty as standard (Xtratus®/Xtratus Flex®: 24 months).*

Always follow the instructions supplied with the product.

Read our terms and conditions about warranty at www.protectglobal.com/service-support/warranty/.



PROTECT™ products are approved by international test institutes in accordance with applicable EU standards.

What the LEDs mean*

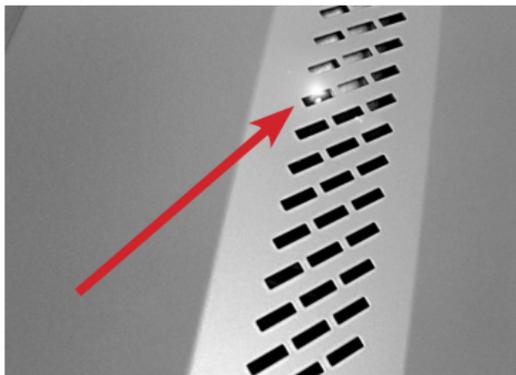
Low fluid level: PROTECT Fog Cannon® units emit audible (short 'beeps') and visual signals (flashing yellow LED on the front panel) when the fluid level is low.

Overview of LED signals:

- The green LED flashes when the fog cannon is connected to a power supply. The green LED lights constantly when the Fog Cannon™ is hot enough and ready to generate fog
- As mentioned above, the yellow LED will flash in the event of low fluid level
- All LEDs are extinguished when the alarm is connected
- Red LED:
 - One flash every 10 sec. means mains power outage**
 - Three flashes every 10 sec. indicates a signal from a fire alarm system to the Fog Cannon™*
 - Four flashes every 10 sec. means low battery charge**
 - Constant flashing: Serious error that requires intervention from the fitter*

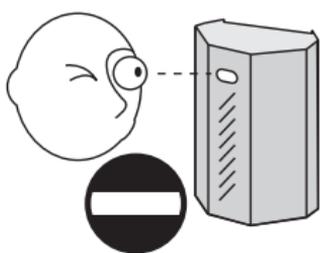
* *Diodes for Xtratus®:*
See manual page 21

** *Requires a service visit*
- contact the fitter



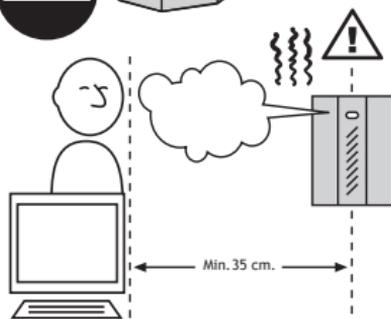
Warnings

Do not touch the nozzle, as it can become very hot and cause burns. Never look directly into the nozzle.



Do not hang anything up immediately in front of the Fog Cannon™.

We recommend that you maintain a safety distance of at least 35 cm.



PROTECT Fog Cannon® units are IP approved for indoor use and must therefore not be exposed to water and moisture.

Spilled fog fluid - in the form of drips or splashes from handling the fluid and/or installing the Fog Cannon™ - must be removed immediately, otherwise it may constitute a slipping hazard.

The fog fluid is a mixture of water and glycol; as such it must not be ingested. Make sure to store the fluid out of the reach of children and pets. In the event that a large quantity of the fluid is ingested, contact a doctor without delay. In the event of contact with the eyes, rinse immediately with clean water for at least 15 minutes. In the event of contact with the skin, wash thoroughly with soap and rinse with clean water.

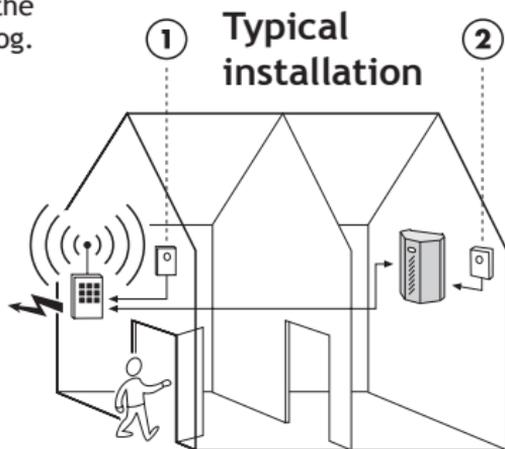
Make sure NEVER to connect the alarm system during working hours while staff are present in the fog-protected rooms.

Instructions for preventing unintentional activation

If the fog protection is activated unintentionally, contact the alarm company's control centre immediately. You should also inform the police and fire service without delay.

In order to prevent injury and/or damage to property, do not enter a 'fogged' area until visibility permits. Always air premises for at least 20 minutes after a Fog Cannon™ has been activated. We recommend airing premises within one hour of a Fog Cannon™ having been activated. See the section on cleaning and maintenance.

The applicable regulations concerning the installation of fog protection state that at least one verifying PIR sensor is to be installed per fog cannon. Sensors of this kind ensure that the Fog Cannon™ only generates fog when both the alarm system and the verifying sensor receive a signal. In this way, it is possible to trigger the alarm without the Fog Cannon™ generating fog. It is only when the verifying sensor registers movement in the room where the Fog Cannon™ is fitted that the unit will start to generate fog.



The sensor (2) is a 'confirmation' sensor that is linked directly to the Fog Cannon™.

Instructions for intentional activation

In order to avoid interaction with a burglar - and to prevent the risk of physical injury - NEVER enter a 'fogged' area until visibility permits. If appropriate, wait until security personnel have checked and secured the premises.

Always air premises for at least 20 minutes after a Fog Cannon™ has been activated. We recommend airing premises within one hour of a Fog Cannon™ having been activated. See the section on cleaning and maintenance.

Interaction between fog protection and fire alarm systems

Fire alarms, automatic fire-extinguishing systems (server rooms) and ABDL systems based on sensors that are sensitive to the fog will be triggered by activated fog protection.

ION and optical sensors are sensitive to the fog (90% of all installations). Thermal, flame and CO sensors are not.

The fire service may be entitled to charge a call-out fee of up to DKK 5,050 (Denmark, 2014) if an ABA system (fire alarm system) is activated by anything other than a fire. However, this does not apply if a passer-by reports the suspicion of a fire on account of activated fog protection.

When taking over the new fog protection system in places where a fire alarm system is fitted, you should always require a full-scale test to check interaction between all the systems.

DON'T FORGET! Have you or your alarm company remembered to inform the local police and fire service about your fog protection installation?

Annual service

PROTECT A/S recommends that you enter into a service agreement with the alarm fitter to make sure that your fog protection system is checked once a year.

The areas that such a service agreement should cover are listed in the Fog Cannon™ installation manual.



The shelf life of fog fluid in unopened packaging is five years, and two years from the date of installation.

End users themselves can change the fluid container in PROTECT QUMULUS® models sold after 1 September 2014 and the model Xtratus®. Fluid containers in all other models must only be replaced by an authorised alarm fitter.

Power consumption

PROTECT Fog Cannon® units consume 5-10 W when the heating element is not switched on. When the heating element is switched on, they consume 60-80 W, which corresponds to the consumption of a conventional light bulb.

Failure to comply with the guidelines laid down in these instructions will result in PROTECT A/S waiving all liability for any consequences of same.

All certificates, CE declarations, product approvals, etc. are published online at www.protectglobal.com

For additional information, contact the alarm company that fitted the fog cannon, or visit www.protectglobal.com

PROTECT A/S

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