

Security Fog Devices (SFD):

A Security Fog Device (often referred to as a “Smoke” Security Device) is a security system which, on activation, produces dense “fog” in order to disorientate a potential thief and deter/hinder further access in to the protected area.

When a Security Fog Device activates, the fog is produced extremely rapidly and the protected area will be filled in a matter of seconds, completely obscuring vision. Dispersion will occur naturally over a period of time or more rapidly with venting via opened (or broken) doors and windows.

Activation:

When used for daytime protection these systems are normally operated by the activation of a hold-up alarm i.e. both the fixed hold-up alarms and the portable hold-up alarms which should be carried by staff.

When integrated with the Intruder Alarm for use when the premises are unattended the SFD should be operated by the second activation of a sequentially confirmed alarm.

Installation:

A security Fog Device should be installed by a suitably trained and competent installer, approved by the NSI or SSAIB. Systems should be installed in accordance with BS EN 50131-8:2009 and be maintained by the supplier each year under contract.

The system should fill the protected area with smoke within 10 seconds of activation of the hold-up alarm or second activation of the intruder alarm. The fog density should reduce visibility to no greater than 100cm. The installer of the system should confirm in writing that the system installed will comply with this requirement.

When the entrance door to the premises is locked with an electric lock or a lobby entrance system is installed this should be linked to the fog system so that activation of the fog installation unlocks the entrance door allowing thieves to leave.

The system should also report malfunctions which may cause it to become inoperable e.g.

- 1) Fog fluid level low
- 2) Power problem/failure (mains or battery)
- 3) System has been isolated (typically by the alarm engineer carrying out a service on the intruder alarm to avoid accidental activation)
- 4) Or any other malfunction which may cause the fog system to become inoperable.

Whether the Security Fog Device is connected to a monitored intruder alarm system or is stand alone, it is essential that malfunctions are reported in a manner that is immediately obvious to the owner/staff/occupants of the site e.g. by an audible warning.

We recommend that all Security Fogging Systems are installed in accordance with the AiS Code of Practice which can be viewed [here](#)

Recommended Suppliers:

Fog Bandit - www.bandituk.co.uk

Smoke Screen - www.smoke-screen.co.uk

Smokecloak - www.smokecloak.co.uk

Protect Global – www.protectglobal.co.uk

Caligo Limited - www.fogoffsecurity.co.uk

