

# ***BANDIT***<sup>TM</sup>

## **INTRODUCTION TO THE *BANDIT* 320**



**OPTIONS & SPECIFICATIONS**

# INTRODUCTION

For the past 4 years the inventor and manufacturer of the outstandingly successful Bandit 240DB has been developing a new, more compact and immensely more versatile product designed for smaller environments, both commercial and domestic, yet not compromising on the performance and reliability of the 240. The new Bandit 320 has now been launched and has many new unique and ground breaking design & technical features covered by numerous international Patents.



## COMPACT & VERSATILE DESIGN

The new Bandit 320 is able to be mounted in any orientation desired, whether wall, ceiling or low level mounting the 320 will operate effectively in any of these positions. With a weight of only 7kg (max 9kg with cartridges installed) and independent control box for all the electronics, ease of installation could not be simpler. Furthermore, the new compact & self-change fog cartridges are disposable and eliminate the need and associated cost for the attendance of an engineer to replace. Fog cartridges are available for room sizes varying from 40 to 120 cubic metres in size.



Optional shell & fascia colours are available to special order (see page 4)

## PERFORMANCE

The key objective of paramount importance in the design and development of the 320 was not to compromise on performance whilst dramatically reducing the size for the fog generator. With the creation of a totally new and patented heat exchanger, the 320 can deliver up to 120 cubic metres of fog in 4 seconds and with a fog ejection reaction time of just 0.25 of a second from when an activation signal is received.

## SECURITY FOG VISIBILITY PROTECTION (SFVP) GRADING

A clear and understandable method of 'Grading' Security Fog Generators is currently in process of development in Europe so that end-users of such products can quickly and easily identify the performance capabilities of the fog generator they are purchasing.

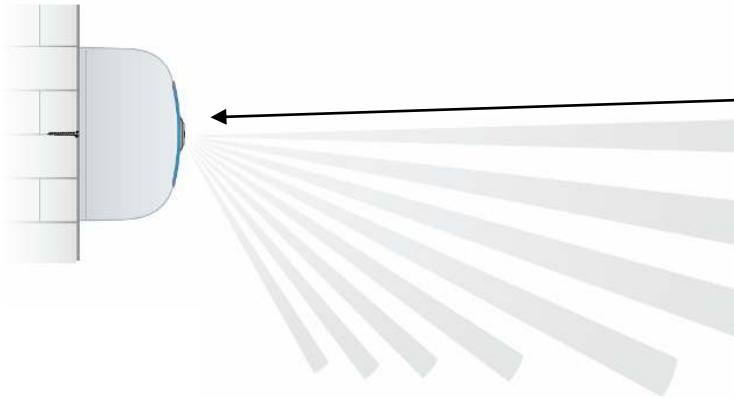
The proposed SFVP chart is as follows:

Security Level (Grade)	Area Fill Time (seconds)	Visibility Range (centimetres)	Impact on Intruder
1	<60	≤ 100	<i>Little restriction to sight or time impairment</i>
2	<30	≤ 65	<i>Reduced visibility and nominal time impairment</i>
3	<20	≤ 45	<i>Considerably limited visibility and time impairment</i>
4	<10	≤ 40	<i>Severely limited visibility and time impairment Intruders impulsive reaction is to flee</i>

It is recommended that for maximum deterrent effect and optimum protection of assets that **Grade 4** is the ideal level to use. The Bandit 320 provides **Grade 4** protection for room sizes of up to 120 cubic metres

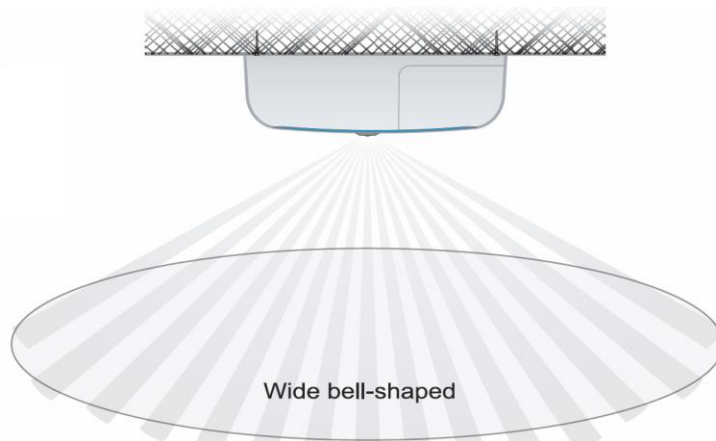
## MOUNTING OPTIONS – STANDARD SYSTEMS

**HORIZONTAL MOUNTING** – 320 in standard light grey colour with anthracite fascia  
Wall Mounted with 320 secured on a horizontal plain



All Bandit 320 systems utilize a unique multi-holed nozzle for fast & effective coverage of the entire area being protected by the unit

**CEILING MOUNTED** – 320 in standard light grey colour with anthracite fascia  
Mounted on ceiling and can be secured to suspended ceiling tile



## OPTIONAL SYSTEM TO SPECIAL ORDER


**VERTICAL MOUNTING** – 320 in standard light grey colour with anthracite fascia  
Wall Mounted with 320 secured on a vertical plain



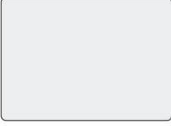
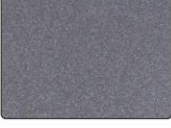



## HOUSING AND FACIA COLOUR OPTIONS

Standard stock colour is grey (RAL 7035) housing with anthracite (RAL 7016) facia. Optional colours are available to special order

**HOUSING**



-  Signal white / RAL 9003
-  Creme white / RAL 9001
-  Light grey / RAL 7035
-  Antracite grey, Metallic / RAL 7016
-  Special, RAL-colour on request.

**FACIAS**



	Signal white RAL 9003 Artikel nr: 320 04 003		Dark wood. Artikel nr: 320 04 033
	Light grey RAL 7035 Artikel nr: 320 04 005		Carbon black. Artikel nr: 320 04 035
	Antracite grey RAL 7016 metallic Artikel nr: 320 04 007		Diamond plate grey Artikel nr: 320 04 037
	Blue RAL 9003 Artikel nr: 320 04 009		Red oak Artikel nr: 320 04 039
	Fluo green RAL 9003 Artikel nr: 320 04 011		XXX RAL 9003 Artikel nr: 320 04 003
	Signal red RAL 9003 Artikel nr: 320 04 013		XXX RAL 9003 Artikel nr: 320 04 003
	Red brown RAL 9003 Artikel nr: 320 04 015		Special op aanvraag Artikel nr: 320 04 0SP

## EASY-CHANGE CARTRIDGES TAILORED TO YOUR ROOM SIZE

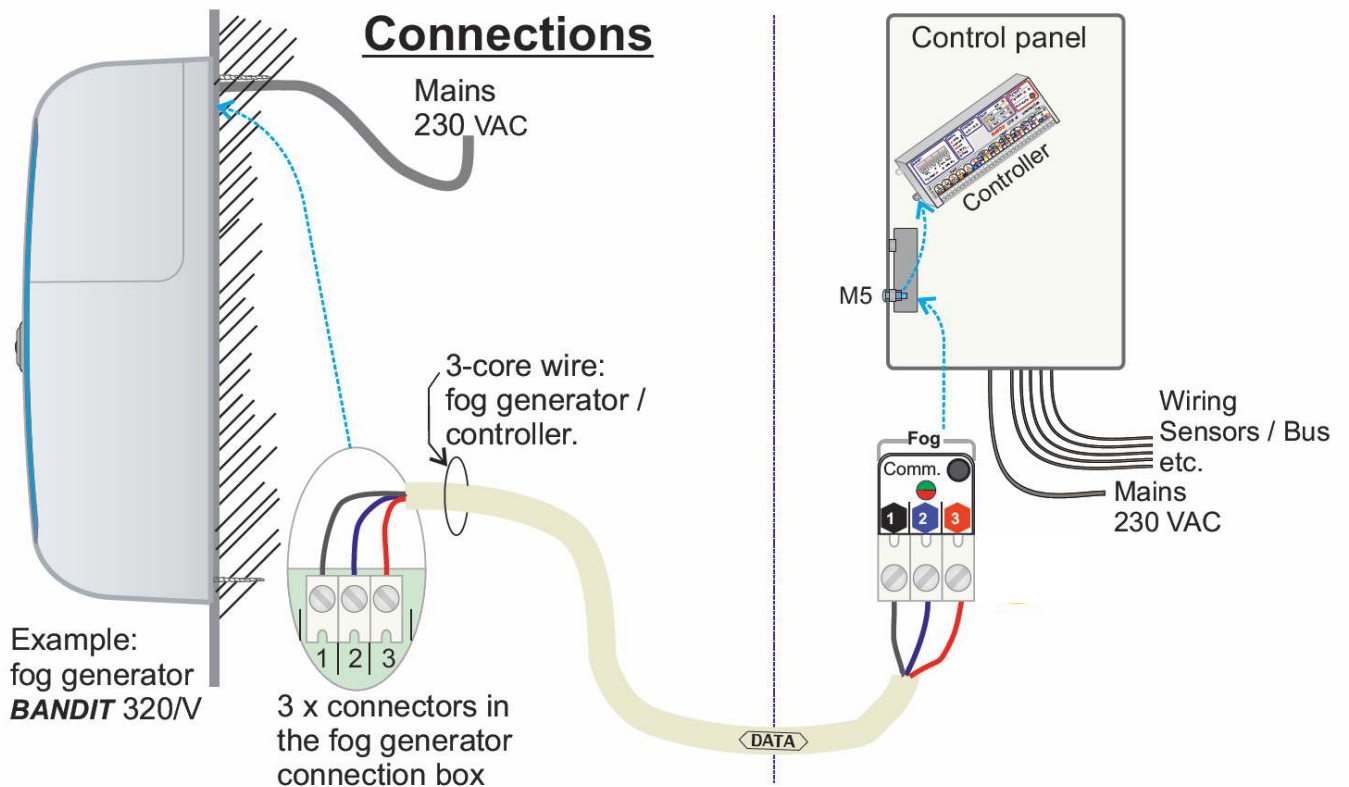


### Available Cartridge Sizes

SIZE	ROOM VOLUME	
	M <sup>3</sup>	FT <sup>3</sup>
1	40 - 60	1400 - 2100
2	60 - 80	2100 - 2800
3	80 - 100	2800 - 3500
4	100 - 120	3500 - 4200



## SIMPLE SINGLE-CABLE CONNECTION BETWEEN 320 AND CONTROL BOX





## SOME KEY POINTS ON THE BANDIT 320 SECURITY FOGGING SYSTEM

1. A totally dustproof, maintenance free unit designed and built in Belgium for a reliable life span of +10 years and with a 5 Year "Peace of Mind" UK Warranty as standard.



2. The 320 houses 2 compact hermetically sealed, patented cartridges these are room-size specific to deliver maximum protection without residue. After use cartridges are easily replaced and empties are disposable as normal household/business waste.

3. Fog Bandit is the preferred fogging system used by organizations such as G4S, Loomis, Barclays Bank, Post Office, Nationwide, HSBC, Shell, Harrods and many other retail multiples including Jewellers and Luxury Goods Stores and other specialist sectors. The same Fog Bandit unit is deployed across all client sectors without compromise.

4. Bandit 320 systems are verified to fully comply with the EN50131-8 European Standard, official certificate applied for and is currently pending processing.

5. For full system monitoring, the Fog Bandit's patented on-board electronics perform 24/7 system diagnostics including the monitoring of tamper, mains power supply, back-up battery condition and cartridge status to instantly and reliably provide any system status changes.

6. In event of mains power failure the 320 remains operational despite no back-up battery – high efficiency electronics 24 hours, fog generator 1 hour min.

7. The 320 can be oriented in any position (wall, ceiling or floor). When securely mounted in any orientation, this position is monitored by a built-in multi-axis solid-state gyroscope providing an instant output signal in event of position tamper.

8. A Built-in self cleaning process ensures clog-free operation at all times and fog quality that meets European Indoor Air Quality Standards. Air Quality certification is also available to confirm that the fog from Bandit systems is completely harmless and totally safe to breathe.

9. Fog Bandit fog is the only security fogging system to add a harmless menthol (peppermint) fragrance to the fog so the Emergency Services and any bystanders can quickly differentiate between security fog and smoke from a fire.

10. The Bandit 320 is the most environmentally friendly "green" fogging system on the market by far and with its built-in 'Power Saver' feature, it only consumes 24W/hour in permanent stand-by mode. For this reason it does not require a 'dormant' mode and can react to an activation signal in just 0.25 of a second.

11. Speed - Fog Bandit rapidly ejects a curtain of dense fog (ejection time 4 seconds, room fill under 10 seconds when installed to Grade 4 SFVP rating) to instantly deter intruders and totally minimise opportunity for asset theft and associated burglary or robbery damages.

12. Minimal engineer call-outs - after an activation the 320 resets itself automatically therefore an engineer call-out is not required. Simply order and replace the spent cartridge whilst a second cartridge provides continued protection in the interim. Alternatively spare cartridges can be ordered and held as spare stock.

Please visit [www.bandituk.co.uk](http://www.bandituk.co.uk) as our website remains the best place for all information relating to Bandit generally including live activation footage and existing client case studies.

# BANDIT 320 SPECIFICATIONS

## Characteristics:

- Dimensions: 410 mm x 197 mm x 145 mm deep.
- Weight: 7 kg (without cartridges).
- Max. power failure: +1 Hour for fog generator and 24 hours for electronics.
- Response time: 0.25 second between alarm signal and fog ejection.
- Fog ejection pattern: Choice of two available patterns of fog ejection.

## Fog Generator

- Max.fog ejection capacity: SFVP grading Grade 4 <120 m<sup>3</sup>
- Fog ejection pressure: >20 BAR (2 Mpa).
- Fog ejection period: About 4 seconds.
- Initial warm up time: 30 minutes from cold condition.
- Max./min. ambient temperature : minimum -10°C & maximum 50°C.
- Maximum heat loss: 24 Watt (at ambient temperature 21 ° C).
- Heat exchange capacity: 100 kJ/s.
- Nominal ejected droplet size: 0200 a 400 nm (99,8% fully aerosol).
- Protection: IP52 - IK08
- Weight: 7 kg (up to 9 kg incl. cartridges)

## Electrical:

- Min./max supply voltage: 220 tot 240 VAC at 50 tot 60 Hz.
- Maximum peak current at 230VAC:- 2 Ampere.
- Average power consumption: 24 W.
- Communication : Tamper-secure and interference protected 3-wire low voltage 2-way serial communication with the controlling controller.
- Emergency Supply >24h: Supercap 300F

## Cartridges:

The unit contains 2 disposable cartridges.  
Cartridges communicate with the fog generator via their three electrical contacts.  
During a fog ejection the fog fluid is expelled under high pressure via the hydraulic connection nipple, which subsequently empties the cartridge of fluid.  
After activation the empty cartridge must be replaced by a new cartridge of identical size.

