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Going back as far as 1964 Guardall's history in the electronic security market is a strong one with the company being responsible for designing and pioneering the world's first commercial Passive Infrared detector.

Our culture of innovation and dedication to research and development has resulted in major advances to both detector and control panel technology as shown with the exciting V-series of detectors and the superb PX range of control panels.



Guardall Ltd. is a design and manufacturing company for electronic security products. Based near Edinburgh, we have strong links within the UK market while also exporting a major part of our production throughout Europe, South Africa, Asia and Australia both from Scotland and with the help of subsidiaries in France and Italy. We are now part of the Kidde group of companies.



"It is the policy of Guardall that we offer unrivalled service, quality, choice and flexibility to ensure that we are always in a position to satisfy your business requirements. By working together we are actively building relationships which benefit all parties."

Andrew W Smith
Managing Director

So when it comes to advanced security systems for residential, commercial and industrial applications, look no further.

You have just found the best you can offer to your most demanding customers.



Passive Infrared Detectors

M-2	4
Vega	4
V12 and V12AM	5
Guardall Passive Infrared Detectors at a glance	4

Dual Technology Detectors

Micra	6
Astra	6
DTX	7
Jupiter	8
Guardall Dual Technology Detectors at a glance	8

Microwave Detectors

MX 950/960	9
------------	---

Control Equipment

QX Range	10
QX at a glance	11
PX Range	12
PX at a glance	13
Panel Accessories	14
Integrated access control	15
GuardStation	16

Outdoor Protection

VEx	17
Excalibur	17

Perimeter Barriers

WinGuard / DoorGuard	18
Active IR Beams	18

Seismic and Acoustic

BurgoGuard 9	19
Burgofon	19

Heat & Smoke Detection

BeamMaster 5	19
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Guardall

Standards	19
Guardall Subsidiaries	20
UK Distributors	20
Overseas Distributors	20





Vega

Advanced range of mirror detectors with 2 independent Dual elements (= Quad) arranged in a unique interlocking configuration and intelligent digital analysis to detect real intruders and disregard false alarm stimuli.

Also available in standard Dual element configuration and with an outstanding Anti-Masking feature to suit commercial, industrial and high risk installations. Various ranges and detection patterns available.



M-2



Following on from the million selling Apollo series, the new micro-controller based M-2 Passive Infrared detector is designed to retain the elegant and distinctive styling of the successfully innovative Guardall V-series.

With excellent false alarm immunity it provides reliable and cost effective intruder protection for both residential and commercial premises.

The choice of 3 coverage options (Volumetric, Corridor and Curtain), all with 4 selectable levels of sensitivity (Pulse Count) provide the M-2 with the highest flexibility for a wide range of applications.



V12

The Guardall V Series of detectors has been designed to resolve the biggest source of dissatisfaction amongst end-users: False Alarms.

The Guardall V12 is the first PIR with the revolutionary Guardall "Dual-Hex" verification technology which means virtually no false alarms whilst ensuring the highest level of detection capability. With a choice of 15m Volumetric, 10m Curtain or 20m Corridor coverage this is one of the most reliable and flexible PIRs on the market.



V12 AM

The Guardall V12 AM is the High Security variant of the advanced V series of Passive Infrared detectors.

As the Guardall V12 but with market leading Anti-Mask technology detecting any attempt to mask the vision of the detector from sprays, paints, paper or boxes etc.



Guardall Passive Infrared Detectors at a glance

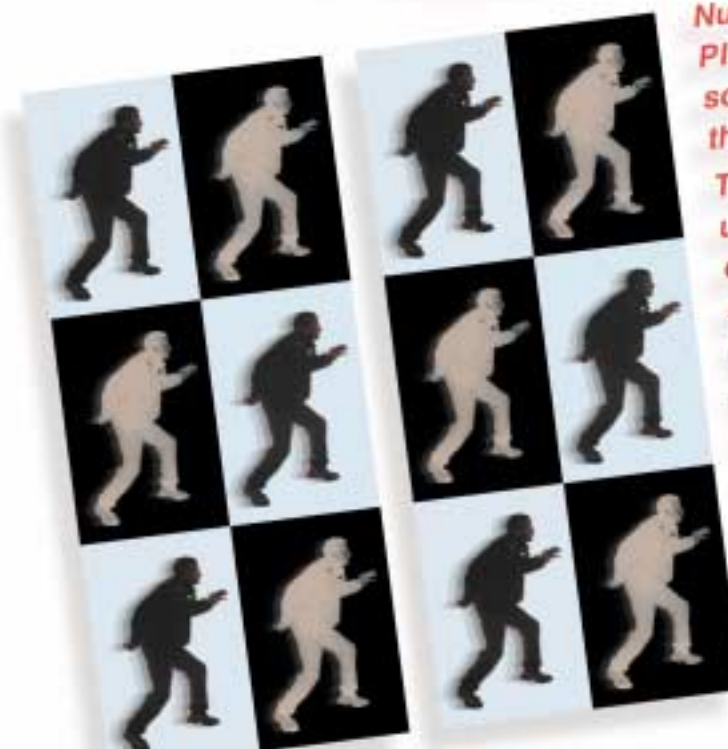
Model	M-2	Vega series			V12 series	
		Vega	Vega DX	Vega AM	V12	V12AM
Suitable applications						
Residential	✓				✓	
Commercial	✓	✓	✓	✓	✓	
Industrial		✓	✓	✓		✓
Range on Centre Axis		Vega	DX	AM		
Volumetric	15m	15m	18m	18m	15m	15m
Corridor	20m	40m	50m	50m	20m	20m
Curtain	10m	30m	-	40m	10m	10m
Power Voltage	9V – 16V dc	8V – 16V dc			9V – 16V dc	9V – 16V dc
Current	11.5mA typical at 12V dc	10/15mA @ 12V dc			12mA typical at 12V dc	17mA typical at 12V dc
Optic Method	Fresnel lens	Mirror			Fresnel lens	
Sensor Element	Twin	Twin	Quad		Dual Hex (12)	
Alarm period	Approx. 3 – 5 secs	Approx. 3 – 5 secs			Approx. 3 – 5 secs	
Features						
Sealed optics	✓	✓	✓	✓	✓	✓
White light filter	✓	✓	✓	✓	✓	✓
Optional Pulse Count	✓	✓	✓	✓	✓	✓
DIL switch Selector	✓	✓	✓	✓	✓	✓
Sneak beams	✓	✓	✓	✓	✓	✓
Temperature compensation	✓	✓	✓	✓	✓	✓
Low supply monitor	✓	✓	✓	✓	✓	✓
Diagnostic Self Test					✓	✓
Anti-masking				✓		✓
Warranty	5 years	2 years			5 years	

DUAL-HEX TECHNOLOGY

Numerous factors can lead to false alarms in PIR detectors – immunity to false alarm sources is the main competitive advantage of the Guardall V series.

The patented Guardall "Dual-Hex Technology" uses 12 pyro elements arranged in two groups of six. A close match is required on both amplifier channels to trigger an alarm. Verification Processing confirms that the signals are identical before producing an alarm. Spikes, noise from electrical appliances as well as hot and cold draughts will not generate identical signals, and therefore no false alarms!

The Dual-Hex Technology takes the Guardall V series of detectors a significant step beyond conventional "Quad" detectors and allows the use of PIRs in even more troublesome environments.





Micra

Attractive and cost effective Dual-Technology sensor, with outstanding operational reliability to ensure minimal detector related service and maintenance call-outs. Easy to install with simple link selection for range adjustment.

The wall-mounted **Micra-S** incorporates a custom designed ASIC to provide improved product functionality and performance. The highly efficient microwave source produced by microstrip technology enables operation at very low power levels and low cost. Available in 4 – 8m and 10 – 15m range.

The **Micra 360** is the highly successful ceiling variant ideal for applications where shelving, partitions or other barriers prevent the use of wall-mounted detectors. Up to 11m diameter floor coverage.



available in 4-8m and 10-15m range

Astra

Tried and tested range of versatile Dual-Technology detectors, proving hugely popular especially in more demanding applications such as public buildings, warehouses, retail outlets, garages, sports complexes and conservatories.



Astra Elite

This unit with all of the Astra features also has additional security features such as Microwave Anti-Mask, which signals attempts to impair detection. It is also supervised, so that in the unlikely event of a microwave failure, the unit reverts to a pulse count PIR.



Astra Elite AM

This High Security variant comes equipped with superior Active-Infrared Anti-Masking circuitry which detects masking attempts from sprays, paints, lacquers, acrylics, vinyls, foams, paper and other reflective materials. It continuously performs diagnostic self-tests and automatically adapts to slow environmental changes for the ultimate peace of mind.



DTX

The DTX is the first in a new series of dual-technology detectors offering an advanced combination of microwave and PIR, supported by high quality mirror optics.

Applying well-proven PIR technology currently used successfully in our range of PIR detectors, its performance is enhanced by the use of mirror optics, achieving precise detection. The PIR works together with a highly effective X-band microwave source operating at low power levels, offering features such as microwave Anti-Masking and monitoring. The supervision circuitry continually monitors the microwave and converts to a pulse count PIR in the unlikely event of microwave failure. Attempts to mask the detector are signalled by the microwave anti-masking circuitry.

Other features include:

- Separate range adjustment for both PIR (via mirror) and microwave (via potentiometer) for accurate setting and maximum installation flexibility.
- Selectable sensitivity (pulse count on / off) for microwave and PIR
- Profiled temperature compensation
- Superior white light and fluorescent light rejection
- Three LED's indicate Unit alarm, Microwave and PIR activation's
- Installer friendly DIL switch selector

The use of high-performance elements in DTX creates a superior detector outstanding in its precise coverage of the detection zone. With its reliability, high performance and false alarm immunity, the DTX can be used successfully in a wide range of applications.

DTX will be available in 12, 15 and 18 metres.

Spring 2005



DTXXTD mirror optics





Jupiter

The Jupiter series of detectors comprises both PIR and a unique quality K band microwave. Four variants offer 20m or 27m volumetric, 40m curtain and 61m long range cover to provide protection of high risk areas, large coverage areas and the more troublesome applications.

The Guardall Jupiter offers outstanding false alarm protection through the use of a customised K band microwave source which means significantly less risk of detection of movement through walls, doors, windows etc. The circuitry will also detect attempts to impair the detector's vision.

It is therefore the ideal detector for problematic applications such as corridors and warehouse aisles.



MX950/MX960

The MX series is a highly successful range of Microwave detectors designed for commercial and industrial applications where a higher level of security is required. The K band microwave technology ensures maximum intruder detection with minimal detection through walls and windows.

Available in 20m (MX950) or 30m (MX960) Volumetric with direction, range and sensitivity adjustable by the installer. Designed to reject mutual interference between microwave units. The microwave power can be disabled during daytime when the detector is unset.

Ideal for applications with very bright or fluorescent lights or rapid temperature changes. It can also be hidden behind e.g. thin plasterboard, secured fabrics or coloured perspex for extra security and where a visible alarm system would interfere with the overall design of the environment.

Model	MX950	MX960
Suitable Application		
Residential		
Commercial		✓
Industrial		✓
Range on centre axis	20m	30m
Alarm Period	Approximately 3 seconds	
Supply Voltage	12V(8.5 – 16V dc)	
Max current consumption	25mA maximum at 12V dc	
Frequency	24.125 GHz (Worldwide) 24.2 GHz (UK)	
Features		
Column Heater/Thermostat		✓
Microwave supervision		✓
Anti-masking		✓
Micro-Controller		✓
Latching		✓
Warranty	2 years	

Guardall Dual Technology Detectors at a glance

Model	Micra series			Astra series			DTX	Jupiter series				
	S-8	S-15	360	Astra	Astra Elite	Astra Elite AM	DTX	Vol 20m	Vol 27m	Cur 40m	LR 61m	
Suitable Applications												
Residential	✓	✓	✓				✓	✓	✓	✓	✓	✓
Commercial	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Industrial	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Range on centre axis	8m or 4m	15m or 10m	8m to 11m diameter	15m	15m	15m	12m, 15m or 18m	20m	27m	40m	61m	
Range adjustment												
PIR	Via PCB	Via PCB	Via mounting height	Via Lens			Via Mirror	Via Head /Bracket				
Microwave	Via Link	Via Link	Via mounting height	Via Potentiometer			Via Potentiometer	Via Potentiometer				
Optic method	Fresnel lens			Fresnel lens			Mirror	Mirror				
Alarm period	Approx. 3 – 5 seconds			Approx. 3 – 5 seconds			Approx. 3 – 5 seconds	Approx. 3 – 5 seconds				
Supply voltage	9.5V – 16V dc			9.5V – 16V dc	9V – 16V dc		9V – 16V dc	8.5V – 16V dc				
Max current consumption	20mA max@ 12V dc			26mA max @ 12V dc	20mA max @ 12V dc	40mA max @ 12V dc	20mA max @ 12V dc	25mA max @ 12V dc				
Frequency	2.45 GHz			2.45 GHz			10 GHz	24.125 – 24.2 GHz to comply with local regulations				
Features												
Single chip ASIC	✓		✓				✓					✓
Temperature Compensation	✓		✓	✓	✓	✓	✓					✓
Horiz. / Vertical Adjustment	✓			✓	✓	✓	✓					✓
Sealed Optics	✓			✓	✓	✓	✓					✓
White light filter	✓		✓	✓	✓	✓	✓					✓
Microwave supervision					✓	✓	✓					✓
Anti-masking					Microwave	Active Infrared	Microwave					Microwave
Micro-Controller					✓	✓	✓					✓
Latching					✓	✓	✓					✓
Test Line	✓		✓	✓	✓	✓	✓					✓
Accessories												
Low Profile Bracket	✓											
Ceiling Mount Bracket	✓											
Flush Mount Kit			✓									
Relay Module						✓						✓
Warranty	5 years			5 years			5 years	5 years				

where a higher level of security is required





QX

The ideal choice for residential and small commercial applications, QX provides a host of features to allow easy operation with peace of mind.

Configurable to meet the most demanding of installations yet providing easy concise operation. Integrated communication in the *i* version gives the option of remote control and servicing with the added benefit of diagnostics to maintain peak performance.

With the use of proximity tokens and readers compliance with DD243:2002 can be achieved.



Cost effective solutions for residential and commercial applications

integrated versions with extensive communications capability



expandable system sizes from 10 to 34 circuits

	QX18	QX18i	QX34	QX34i	
EN50131 grade	Grade 2	Grade 2	Grade 2	Grade 2	EN50131 grade
Circuits	10 to 18	10 to 18	10 to 34	10 to 34	Circuits
Circuit doubling	Y	Y	N	N	Circuit doubling
System Users Max	15	15	30	30	System Users Max
Remote keypads	4	4	8	8	Remote keypads
Aux Outputs	5	5	8	8	Aux Outputs
Max physical outputs	8 to 23	8 to 23	11 to 42	11 to 42	Max physical outputs
Output/Mimic modules	1	1	2	2	Output/Mimic modules
Case material	1.2mm M.S (U10)	1.2mm M.S (U10)	1.2mm M.S (U14)	1.2mm M.S (U14)	Case material
Case size HxWxD (mm)	275x275x80	275x275x80	315x375x80	315x375x80	Case size HxWxD (mm)
Battery size	7Ah	7Ah	7Ah/17Ah	7Ah/17Ah	Battery size
PSU rating	1.0A	1.0A	1.5A	1.5A	PSU rating
Full diagnostics	Y	Y	Y	Y	Full diagnostics
System expansion	2 x 8 ccts	2 x 8 ccts	4 x 8 ccts	4 x 8 ccts	System expansion
Event log	250	250	250	250	Event log
Groups	4	4	8	8	Groups
Modem/Digi	Super/Speech/ISDN	Integrated	Super/Speech/ISDN	Integrated	Modem/Digi
Network option	WAN/LAN	WAN/LAN	WAN/LAN	WAN/LAN	Network option
Up-down load S/W	GSR	GSR	GSR	GSR	Up-down load S/W
Real time printing	Y	Y	Y	Y	Real time printing
Schedule	Y	Y	Y	Y	Schedule
Access Users Max	15	15	30	30	Access Users Max
Access Modules	N	N	N	N	Access Modules
Access Log	N	N	N	N	Access Log
Plug on connectors	N	N	N	N	Plug on connectors
Screen cable required	N	N	N	N	Screen cable required
Cable length unscreened	1.7km	1.7km	1.7km	1.7km	Cable length unscreened
Cable length screened	2.5km	2.5km	2.5km	2.5km	Cable length screened
Bus external	1	1	1	1	Bus external
Bus wiring	star/daisy	star/daisy	star/daisy	star/daisy	Bus wiring
Inertia circuits	Y	Y	Y	Y	Inertia circuits
Silent set	Y	Y	Y	Y	Silent set
PIN length	4/5/6	4/5/6	4/5/6	4/5/6	PIN length
DTMF remote control	Smart Speech	N	Smart Speech	N	DTMF remote control
Panel weight	3.5kgs	3.5kgs	4.5kgs	4.5kgs	Panel weight



local and wide area network connectivity



PX Where system size does matter PX provides commercial, high security and residential protection for up to 512 circuits with the capability to create from 4 to 32 sub systems that are easily configurable for simple operation.

The PX range has full diagnostics for all circuits and provides comprehensive feedback on the status of the system to either the keypads or remotely to one of the PC packages.

Access systems with up to 32 doors and 1,000 users are easily within the scope of the PX intruder alarm panel.

For the financial and high risk markets PX high security has all the answers. Network connectivity using TCP/IP and the availability of a single detector interface within the detector all enable PX250 HS to provide a solution to the highest standards.



	PX18	PX34	PX80	PX500	PX HS 250	
EN50131 grade	Grade 2	Grade 2	Grade 3	Grade 3	Grade 3	EN50131 grade
Circuits	10 to 18	10 to 34	0 to 80	0 to 512	0 to 256	Circuits
Circuit doubling	N	N	N	N	N	Circuit doubling
System Users Max	20	40	100	200	200	System Users Max
Remote keypads	4	8	16	32	16	Remote keypads
Aux Outputs	8	8	8	8	8	Aux Outputs
Max physical outputs	11 to 26	13 to 52	15 to 196	15 to 684	15 to 348	Max physical outputs
Output/Mimic modules	1	3	16	64	32	Output/Mimic modules
Case material	1.2mm M.S (U12)	1.2mm M.S (U18)	1.2mm M.S (U18)	1.2mm M.S (U18)	1.2mm M.S (U18)	Case material
Case size HxWxD (mm)	314x300x75	388x320x110	388x320x110	388x320x110	388x320x110	Case size HxWxD (mm)
Battery size	7Ah	7Ah/12Ah/17Ah	7Ah/12Ah/17Ah	7Ah/12Ah/17Ah	7Ah/12Ah/17Ah	Battery size
PSU rating	1.0A	1.5A	1.5A	2.5A	2.5A	PSU rating
Full diagnostics	Y	Y	Y	Y	Y	Full diagnostics
System expansion	2 x 8 ccts	4 x 8 ccts	20 x 8 ccts	64 x 8 ccts	32 x 8 ccts	System expansion
Event log	500	500	500	1000	2000	Event log
Groups	4	8	16	32	16	Groups
Modem/Digi	Super/Speech/ISDN	Super/Speech/ISDN	Super/Speech/ISDN	Super/Speech/ISDN	Super/Speech/ISDN	Modem/Digi
Network option	WAN/LAN	WAN/LAN	WAN/LAN	WAN/LAN	WAN/LAN	Network option
Up-down load S/W	GSR	GSR	GSR	GSR	GSR	Up-down load S/W
Real time printing	Y	Y	Y	Y	Y	Real time printing
Schedule	4	8	16	32	32	Schedule
Access Users Max	20	40	1000	1000	1000	Access Users Max
Access modules	2	2	16	32	16	Access modules
Access Log	1000	1000	1000	1000	1000	Access Log
Plug on connectors	N	Y	Y	Y	Y	Plug on connectors
Screen cable required	N	N	N	N	N	Screen cable required
Cable length unscreened	1.7km	1.7km	1.7km	1.7km	1.7km	Cable length unscreened
Cable length screened	2.5km	2.5km	2.5km	2.5km	2.5km	Cable length screened
Bus external	1	1	2 isolated	4 isolated	4 isolated	Bus external
Bus wiring	star/daisy	star/daisy	star/daisy	star/daisy	star/daisy	Bus wiring
Inertia circuits	Y	Y	Y	Y	Y	Inertia circuits
Silent set	Y	Y	Y	Y	Y	Silent set
PIN length	4/5/6	4/5/6	4/5/6	4/5/6	4/5/6	PIN length
DTMF remote control	Y	Y	Y	Y	Y	DTMF remote control
Panel weight	3.9kgs	5.5kgs	5.5kgs	5.9kgs	5.9kgs	Panel weight

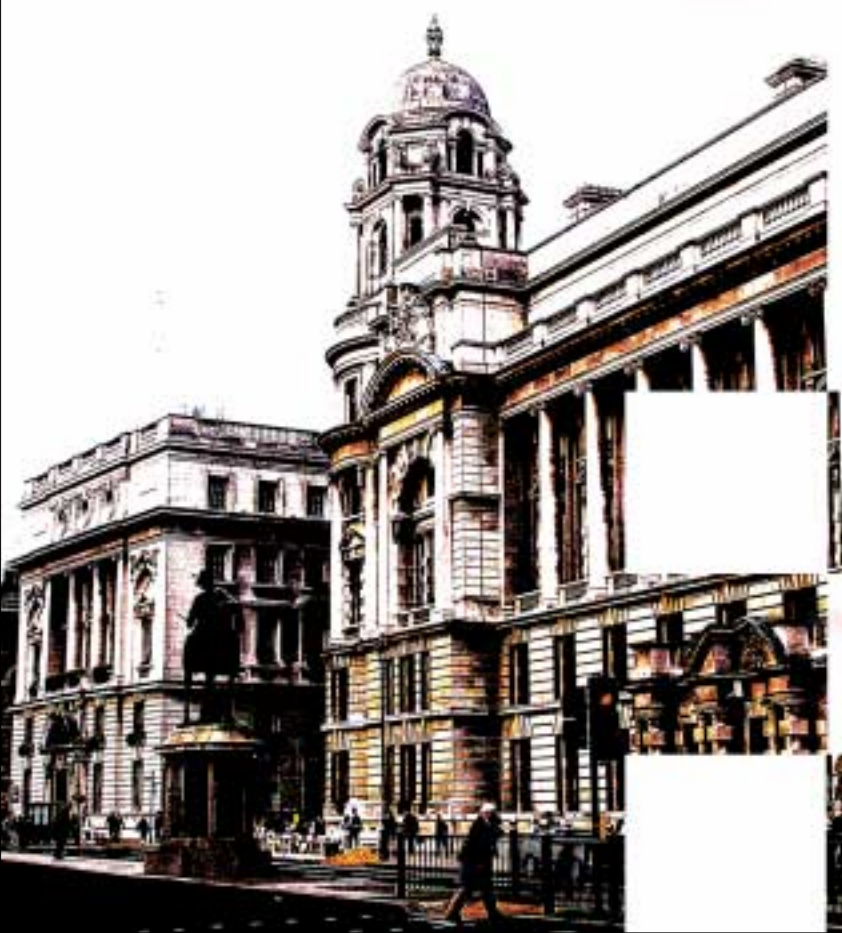


Comms

enhanced software features for high security applications

expandable system sizes from 10 to 512 circuits

4 to 32 individually controllable groups



LCD Standard Keypad	2 line, 32 character display, fully backlit with removable flap for left or right hand operation; 0.5A general purpose output.
LCD Keypad with Circuits	As LCD Standard Keypad with the addition of 2 EOL diagnostic circuits.
LCD Keypad with Proximity	As LCD Standard Keypad with the addition of Proximity operation which can be used for setting / unsetting and simple access control functions.
LCD Keypad with Circuits & Proximity	As LCD Keypad with Proximity above with the addition of 2 EOL diagnostic circuits.
Expander (Concentrator)	8 input diagnostic EOL circuits in a plastic enclosure with the addition of 4 x 0.5A general purpose outputs.
Output Module 8 Relays	Eight 2A rated clean contact relay outputs housed in a plastic enclosure.
Output Module 8 Transistors	Eight solid state transistor outputs housed in a plastic enclosure.
Output Module 8 Transistors & 4 Relays	Four 2A rated relay outputs with eight solid state transistor outputs; the four relay outputs operate in tandem with the first four transistor outputs; housed in a plastic enclosure.
Mimic Module	24 transistor outputs for use as an LED drive for a mimic panel; housed in a plastic enclosure.
Serial Module	Allows the PX panel to print through a DIN connection and provides a full RS232 port for direct connection of a PC or a modem.
Access Module	Single door controller which connects onto the PX control panels XiB bus; the unit has outputs for door open and Aux relay and can also support up to two readers for in and out access; with the Access Module connected to the PX the number of users increases to 1000.
Smart Access Module	As the Access Module but housed in a metal case incorporating a 1.5A diagnostic power supply with transformer; the power supply, when connected to the PX panel, provides voltage and charge current for the battery; the case can house a 7AH battery.
Proximity reader	External weatherised proximity reader for use with the Access and Smart Access units; comes with 2m cable attached and is IP54 rated.
Smart Expander	Contains 8 input diagnostic EOL circuits in a metal case with the addition of 4 x 1/2A general purpose outputs; it also houses a 1.5A diagnostic power supply and transformer; the power supply, when connected to the PX panel, provides voltage and charge current for the battery; the case can house a 7AH battery.
Bus Isolator / Extender	Can be used to isolate PX busses and can also provide an extra 1.7km of cable length drive capability per extender.
Prox Fob	For use with Proximity reader and Prox Keypads – Pack of 2 tokens.
Prox Card	For use with Proximity reader and Prox Keypads – Pack of 10 cards.
Smartdial Speech	8 channel digital communicator with point ID, Ademco fast and superfast formats with up/download capability at 1200 baud half duplex; the Smartdial Speech also provides up to 20 seconds of recordable speech for primary and 3 secondary messages; 5 telephone numbers available and programmed from a keypad, messages can be recorded through a handset or remotely.
Smartdial Super	8 channel digital communicator for use with PX control panels; provides Point ID, Ademco fast and superfast formats also can be used for up/download at 1200 baud half duplex.
Smartdial Speech ISDN	All of the features of Smartdial Speech, but for ISDN lines using the 'B' channel.
Radio module	868MHz radio receiver allows radio transmitters to be added to the PX/QX control panels. A single radio module can have transmitters fitted to the maximum number of zones the panel supports (18 can be fitted to the QX18 and 512 to a PX500).
Audio Bus Interface	Interface PCB to the QX for the connection of audio talkback unit
Audio Bus Interface (speech/record)	Interface PCB for the connection of audio talkback units with the addition of speech record and playback.
Microphone	External listening in device interfaces to the audio talkback unit.
Audio Talkback unit	For two way communications with microphone for speech and speaker for broadcast.
Microphone module	Microphone only audio talkback unit.
GSM module	GSM based communicator for use with the PX/QX control panel range, provides alarm communication and up down loading capability.
Dualcoms module	GSM/PSTN based communicator for use with the PX/QX control panel range, provides alarm communication and up down loading capability. Added facility for backup in the event of failure to either of the communications paths.



2 to 32 door control with up to 1000 users

With the capability to control from 1 to 32 doors with as many as 1,000 users the PX range of control panels is up to the task.

With access integrated into the PX control panels a system solution can be provided where all the access and intruder functions are matched to give maximum effectiveness. Fire doors can even be unlocked in the event of fire to allow building evacuation to take place safely.

The system can be used for applications as diverse as unlocking your front door and disarming your intruder system to the control of multiple doors; with options for scheduling, RTE, door held open or forced, schedule pending, and anti-passback. If you require complete control of 1 to 32 doors look no further than PX to provide a secure solution.



full schedules for users, doors

full access/intruder integration



PX LCD Keypad



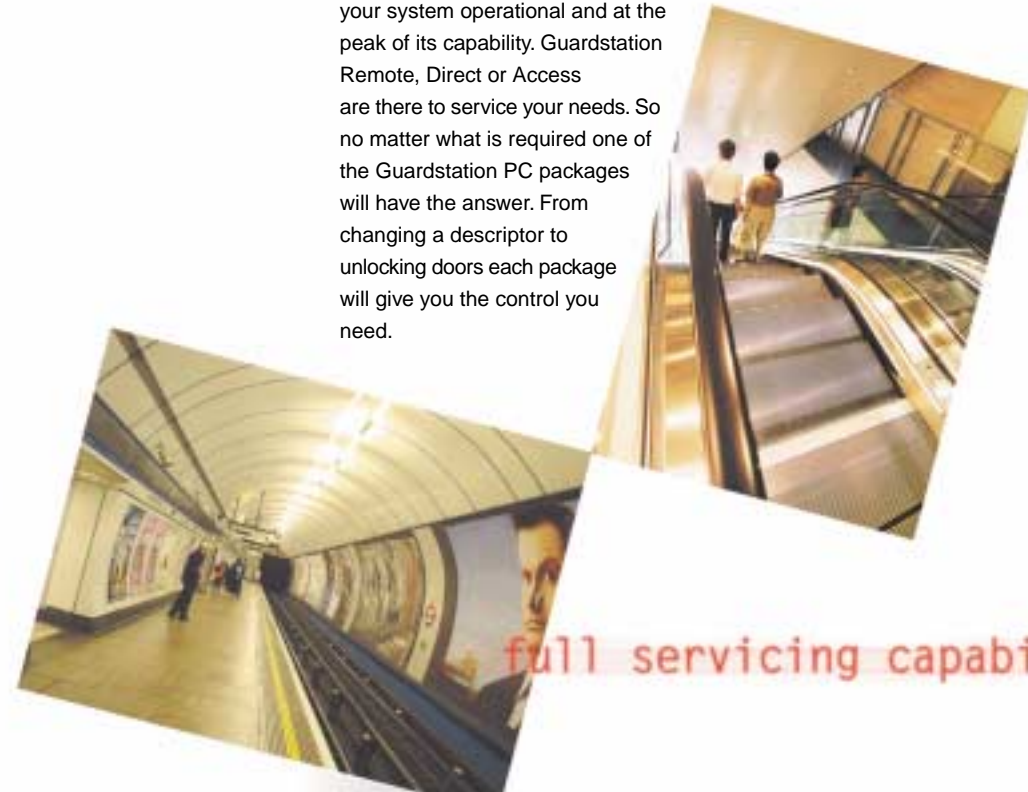
PX Expander (Concentrator)



Guardstation

PC based software packages to manage, maintain or monitor your security system providing the capability to configure, integrate and control your PX / QX equipment.

Remote diagnostics are part of a battery of features provided to keep your system operational and at the peak of its capability. Guardstation Remote, Direct or Access are there to service your needs. So no matter what is required one of the Guardstation PC packages will have the answer. From changing a descriptor to unlocking doors each package will give you the control you need.



full servicing capability

multi level operator authorities

Part number	Part number	Guardstation Range
W74424		PC Direct connection cable
W76009(PAR)	W76009(USB)	Guardstation Remote Ver 3
W76010		Guardstation Direct Ver 3
W76011(PAR)	W76011(USB)	Guardstation Maps Ver 3
W76012(PAR)	W76012(USB)	Guardstation Access Ver 3
Part number	Part number	Guardstation Professional Range
W76051(USB)	W 76051(PAR)	CD with a dongle coded for use with Guardstation and maps allowing full remote operation and the use of the integrated maps graphic package.
W76052(USB)	W 76052(PAR)	CD with a dongle coded for use with GS Access and maps allowing full control and management of access system(s) with the inclusion of the integrated maps graphic package.
W76053(USB)	W 76053(PAR)	CD with a dongle coded for use with GSR, GS Access and maps allowing full remote operation with complete control and management of access system(s) with the inclusion of the integrated maps graphic package.



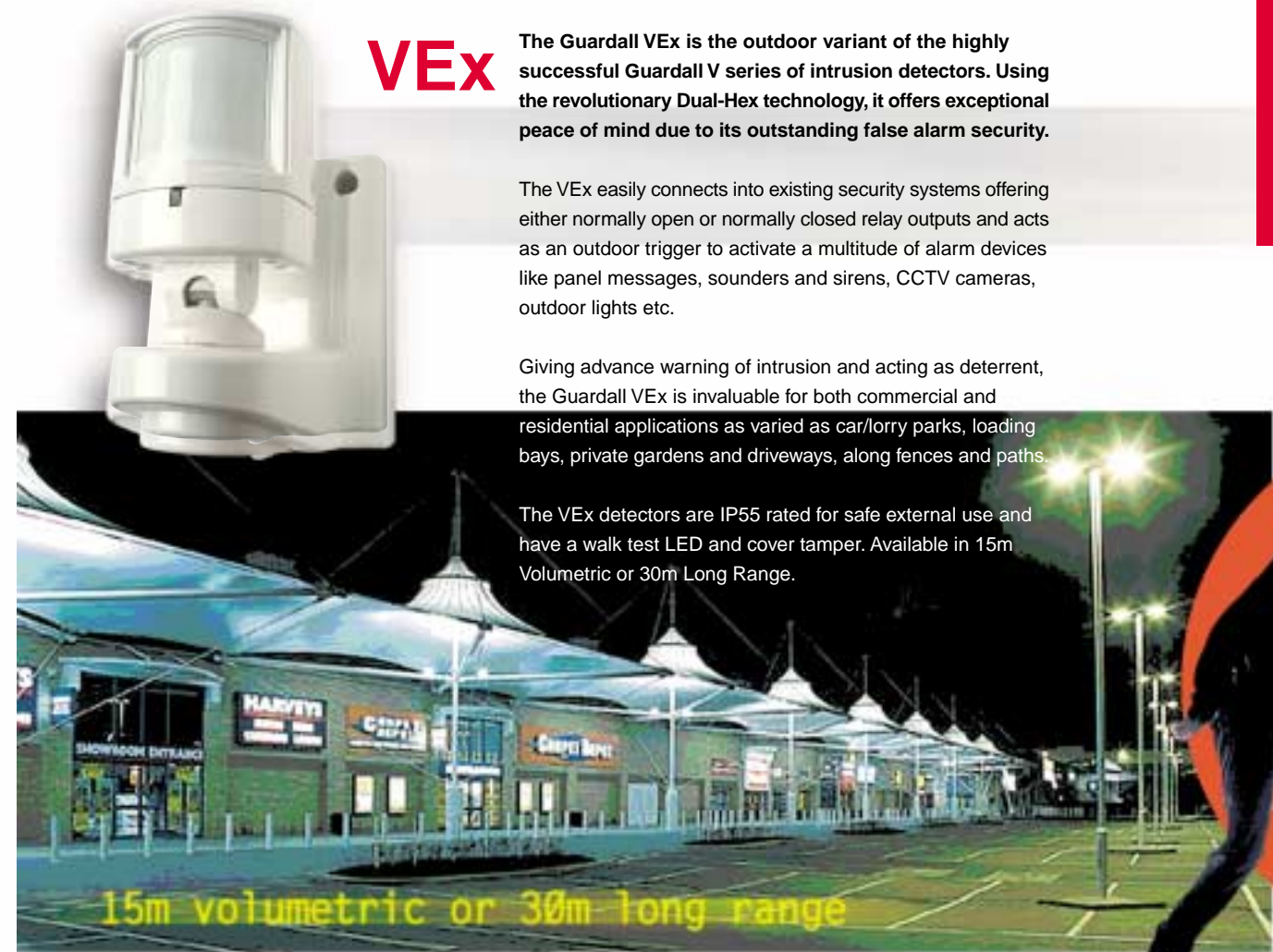
VEx

The Guardall VEx is the outdoor variant of the highly successful Guardall V series of intrusion detectors. Using the revolutionary Dual-Hex technology, it offers exceptional peace of mind due to its outstanding false alarm security.

The VEx easily connects into existing security systems offering either normally open or normally closed relay outputs and acts as an outdoor trigger to activate a multitude of alarm devices like panel messages, sounders and sirens, CCTV cameras, outdoor lights etc.

Giving advance warning of intrusion and acting as deterrent, the Guardall VEx is invaluable for both commercial and residential applications as varied as car/lorry parks, loading bays, private gardens and driveways, along fences and paths.

The VEx detectors are IP55 rated for safe external use and have a walk test LED and cover tamper. Available in 15m Volumetric or 30m Long Range.



15m volumetric or 30m long range

Excalibur

The Guardall Excalibur Light Control System signals entry to a secure area with a flood of light. It can be used as a "welcome" courtesy lighting system or effective crime deterrent with its efficient sensing of light/darkness levels. It is a reassuring welcome to the residents, and legitimate visitors – particularly children or the elderly, when approaching the house in darkness or when looking for keys.

Two sensor variants are available: a 17m Volumetric and a 30m Long Range to cater for all applications. A choice of LED or LCD controller offers further set-up and display options. The Drive Unit can be mounted either internally or externally and supports up to 10 Sensor Heads.



17m volumetric and 30m long range



WinGuard DoorGuard

The infrared mini-barriers WinGuard and DoorGuard are sets of unobtrusive active infrared transmitter / receiver units housed in robust aluminium casings, which are one and two metre high with 4 or 7 twin active infrared beams respectively. One set can cover up to 6m in range.

The small dimensions of the units (only 23mm wide) make them ideal for installation on the outside of windows and doors. The alarm is triggered by obscuring one or more of the infrared beams. In order to minimise false alarms caused by large insects, the twin beams are spaced 10mm apart. Both products are IP 55 rated and protected against sunlight. Available in black and white.



Active IR Beams

A comprehensive range of Twin, Triple and Quad active infrared beams (SBT, SBM and SBQ respectively) for indoor and outdoor perimeter protection. The units contain a high power source for optimum detection range and minimum signal loss. False alarms are reduced, as a simultaneous interruption of 2, 3 or 4 beams is required for an alarm condition to occur. An AGC automatic gain control allows for variable weather conditions and additionally a digital filter in the SBQ range improves noise rejection and operation in adverse weather conditions even further.

The units are easy to install as they allow for simultaneous horizontal and vertical adjustment of all beams and can be used in all security application, mounted on walls, poles or in columns. The aesthetically pleasant smoked glass columns, which offer extra security and flexibility, are easy to install and available in 4 different height versions allowing 180° beam adjustment.



Guardall Active IR Beams at a glance

Specification	SBT 25/50/100/150 SBT 30F/60/F/100F/150F	SBM 50S/75S/100S/150S	SBQ 100S/150S/200S
Detection Range	from 25 to 150 metres	from 50 to 150 metres	from 100 to 200 metres
Max Distance	350/700/1100/1680 m.	1000/1500/2000/3000 m.	2000/3000/4000 m.
Infrared Beams	2 beams	3 beams	4 beams
Light source		Infrared LED	
Response time	50-700 ms (variable)	35-700 ms (variable)	
Alarm output	NC/NO relay contacts(0.5A max 30V AC/DC)		
Tamper output		NC relay contact	
Supply Voltage		10.5-28 V DC	
Current	35/40/50/60 mA	70/80/90/100 mA	70/90/95 mA
Temperature range		-25°C +55°C	
Optical adjustment	'+/- 10° vertical	'+/- 8° vertical	'+/-12° vertical
Optical adjustment		'+/- 90° horizontal	
Optical alignment		viewfinder	
Frost protection		Frost shelter structure	
Frequency channel selection	4 channels (F type only)	4 channels	4 channels
Fog disqualification circuit	no	no	yes
Monitor output	Signal strength O/P - monitoring indicator		
Housing	Polycarbonate (ABS)	Polycarbonate (ABS)	Polycarbonate (ABS) Anodised aluminium
Weight (tx/rx set)	300 g	700 g	970 g
IMQ Certification	Level II		Level II
Accessories		Pole Mounting Kit for Twins 1.50m Column (tamper included) 2.00m Column (tamper included) 2.50m Column (tamper included) 3.00m Column (tamper included) Installation kit twin/triple Wall mounting kit for column Ground mounting kit for column Power supply 500mA Internal Heater/Thermostat Column Heater/Thermostat	

BurgoGuard 9

The BurgoGuard 9 is an easy to install multi-purpose high security seismic detector. It is designed for protecting strong rooms, safes and ATMs from various forms of attack including oxygen lances, diamond tip drills, cutting disks and explosives.

It also has temperature sensing to detect "extreme cold" and "high temperature" attacks. Short duration, but high intensity signals (explosions) are also detected and processed by special circuitry. The detector can be fitted with an optional solenoid or non-solenoid safe protection flap, which is available in 15 or 50 mm.

The sensitivity of the BurgoGuard 9 can be adjusted to suit individual applications. A crystal element detects the slightest vibration of the structure to which the detector is mounted and

converts them into electrical signals, but only vibrations with defined signal parameters will generate an alarm. Includes wall and cover tamper as standard.



Burgofon

The Burgofon is an acoustic sensor which detects noise / sound with the option to be configured to detect light. The combination of sound and light detection make it ideal for use in safes, strong rooms, vaults or similar structures. It can also be used for the protection of showcases in museums and shops. An optional test bleep allows remote activation of a sounder for testing purposes.

BeamMaster 5

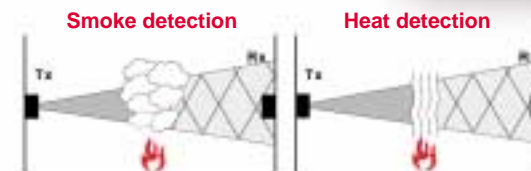


Heat/Smoke Detection

This system operates by sending an invisible infrared beam between transmitter and receiver at a distance of up to 100 metres. More cost effective than point sensors as an area of 1,400 square metres can be covered with just one TX/RX link. The BeamMaster reacts to both the heat and smoke elements of a fire. This means that smokeless fires such as burning alcohol, which standard smoke sensors could ignore, will be safely detected.

A LCD keypad is available for signal installation, programming and to display visual warnings. A full service can be carried out on ground level in a matter of minutes. The keypad will also display pre-warning of smoke and/or heat and can be controlled via electronic key or PIN authority access.

Available accessories include an Enhanced Illuminator and a Laser Tool to facilitate installation.



Guardall is a quality assured company with products manufactured from design through to shipping in a factory which adheres to the ISO 9001 standard. We are members of the British Security Industry Association - BSIA. Many of our products are approved to internationally recognised standards such as LPC, IMQ, NFA2P, VdS, ANPI, NCP, SKAFOR, UL, ULC. All Guardall products conform to the appropriate European Union standards below as applicable:

- Electro-Magnetic Compatibility - EMC - Directive 89/336/EEC.
- Low Voltage Directive - LVD - Directive 93/23/EEC for safety.
- Radio and Telecommunications Terminal Equipment - RTTE - Directive 1999/5/EC.

Standards