Detection Technologies

Experts in **Protecting Perimeters Worldwide**

www.detection-technologies.com

Who We Are

- **UK based** company founded in 2007
- Key personnel can draw on **100+ man-years** of practical experience in the security industry
- Product portfolio provides a wide range of **P**erimeter **I**ntrusion **D**etections **S**ystems (**PIDS**) and Perimeter Management Software
- In-house **hardware and software** development
- All products are **produced** and **quality assured in UK**
- **Accreditations:**
  - Ministry of Justice Approved and CPNI Verified
  - BSIA Accredited
  - ISO9001 Company Compliance

What We Secure

Prisons & Military

Utilities

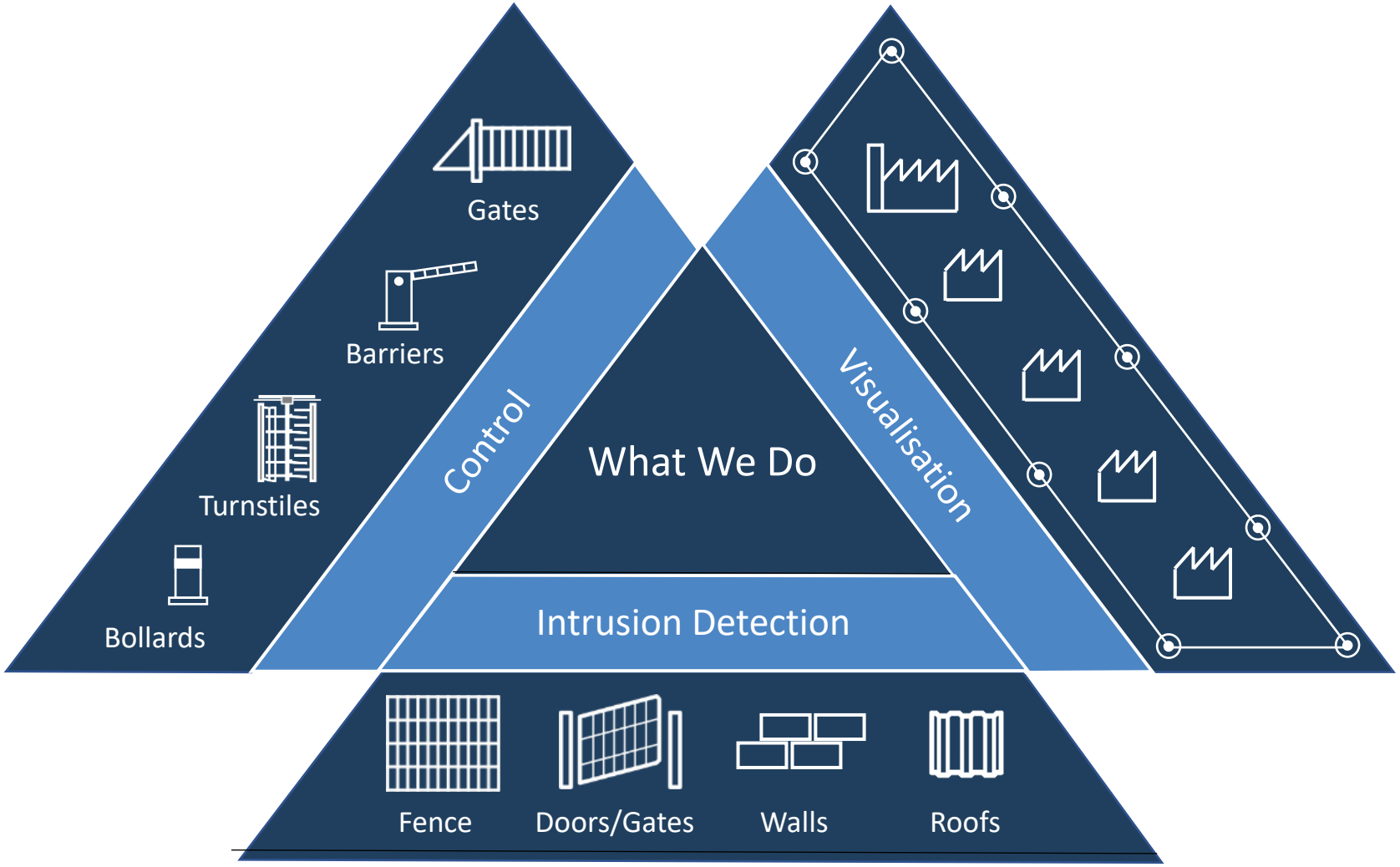
Industry

Solar Parks

Public Transport

Private Homes

What We Do


Gates
Barriers
Turnstiles
Bollards
Control
What We Do
Visualisation
Intrusion Detection
Fence
Doors/Gates
Walls
Roofs

DETECTION TECHNOLOGIES

I. Intrusion Detection

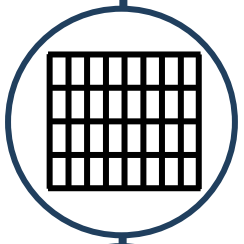
Using a variety of sensors!

Intrusion Detection Sensors

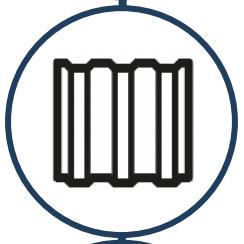
DETECTION TECHNOLOGIES

Microphonic Sensor Cable

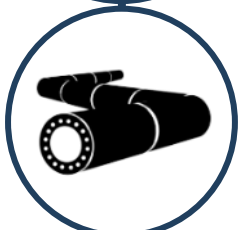
Fences



Metal Roofs and Walls

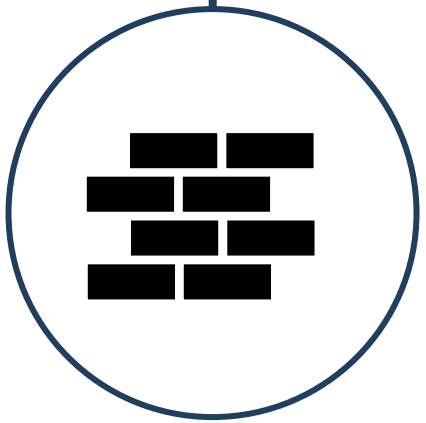


Pipelines

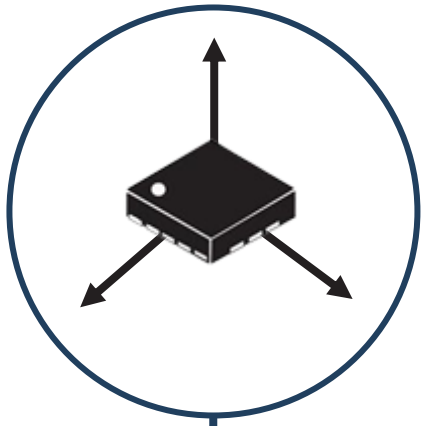


Seismic Sensors

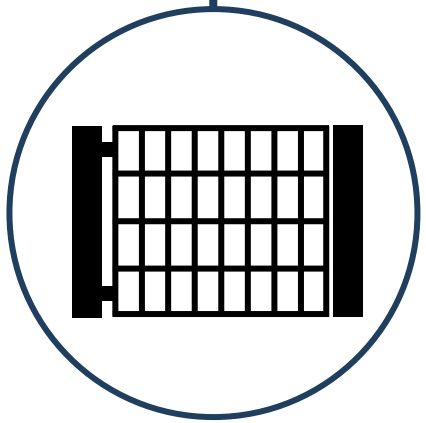
Brick/Concrete Walls



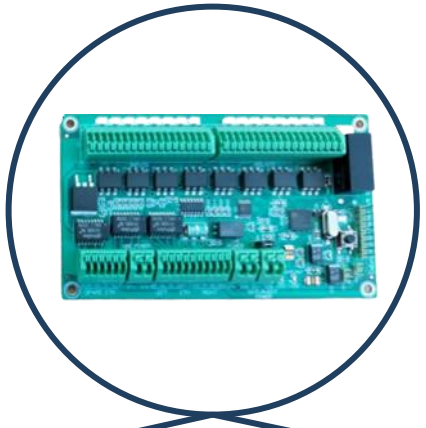
Acceleration & Tilt Sensors



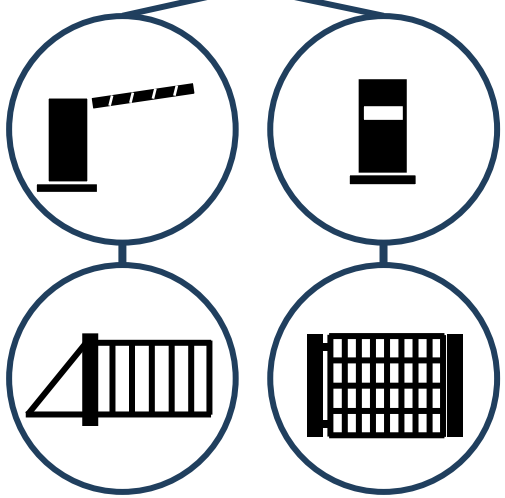
Gates



I/O Modules

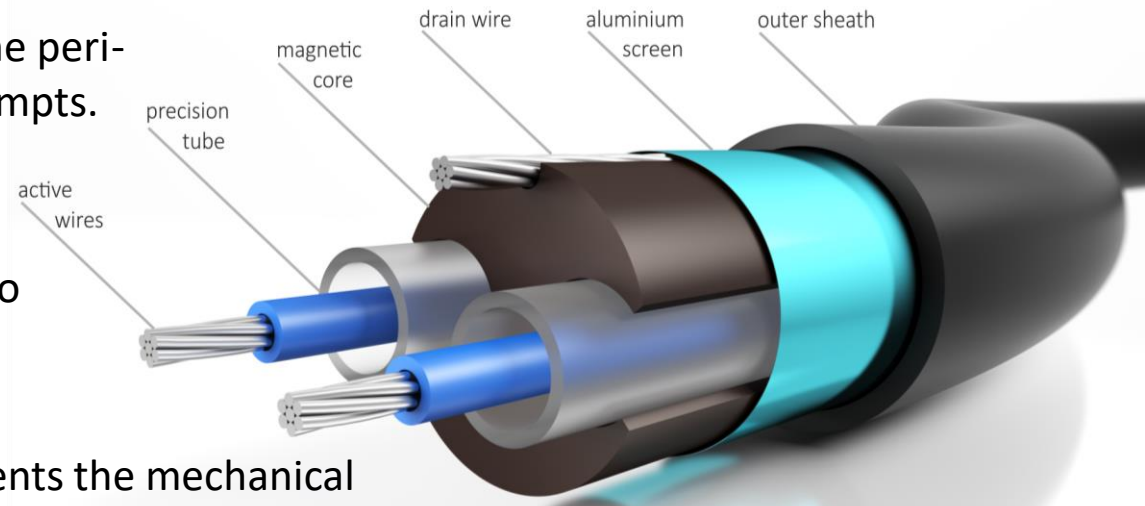


Accesses



Microphonic Sensor Cable

Vibra**Tek Plus** is an ultrasensitive microphonic sensor. It is installed at the perimeter protection structure to detect breakthrough and climb-over attempts.



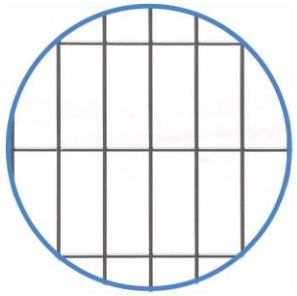
Best-in-class intrusion detection

The Vibra**Tek Plus** sensor will generate a signal typically 1250 times greater than the background noise. This unmatched signal-to-noise ratio is the reason for an exceptional intrusion detection performance.

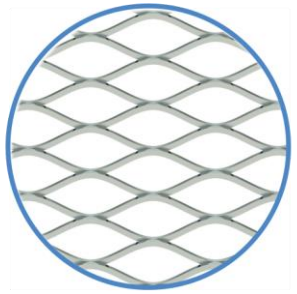
Minimise false alarms

The electrical signal created by the Vibra**Tek Plus** sensor exactly represents the mechanical energy caused by the intruder so that Detection Technologies' signal processing algorithms reliably differentiate between hostile and non-hostile events.

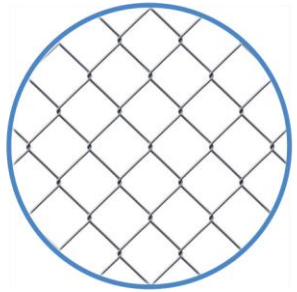
Protects various types of perimeter structures



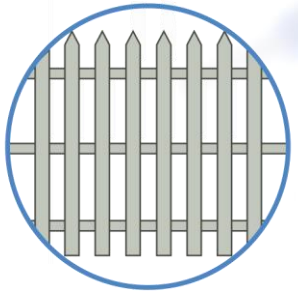
Welded mesh fence



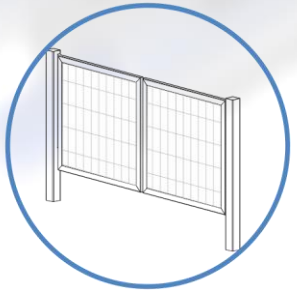
Expanded metal fence



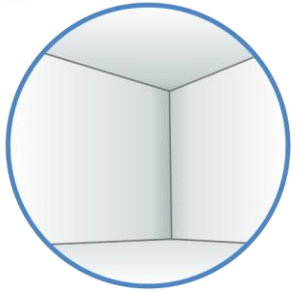
Chain link fence



Palisade fence



Doors and gates



Walls, floors and ceilings

Seismic Wall Detection

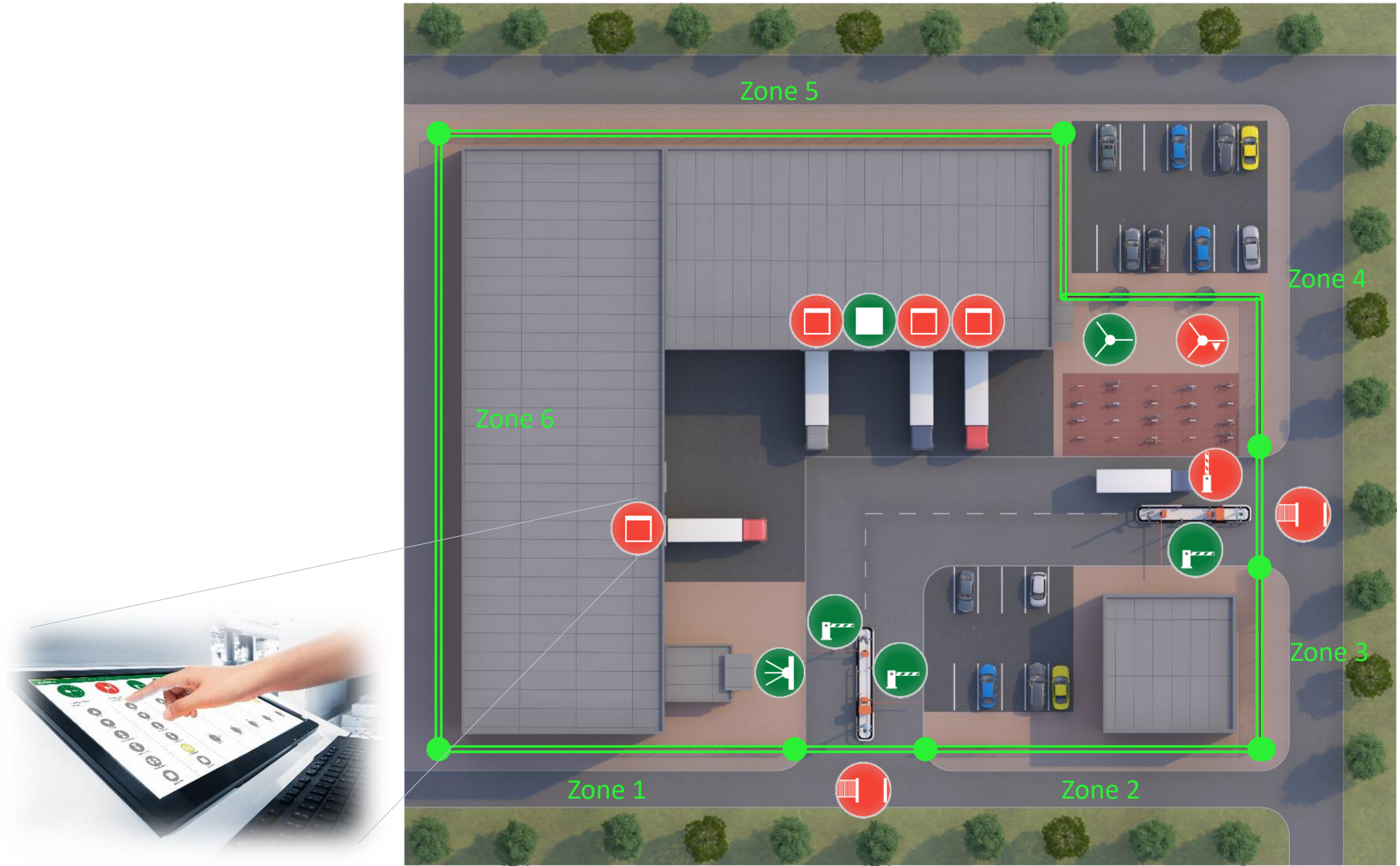
Vibra**Fon**

- Unique **wall intrusion detection** system
- Detects **climb-over**, **break-through** and **dig-under** attacks
- Can be installed **hidden inside** the wall or at the **surface of the wall** leaving no impact on wall appearance
- **No power** required along wall

DETECTION TECHNOLOGIES

II. Perimeter Visualisation

In 3D or 2D


Zone 5
Zone 4
Zone 6
Zone 3
Zone 1
Zone 2

DETECTION TECHNOLOGIES

III. Perimeter Control

Using digital devices

Disabled Access

Ready

Out

In

Continuous Out

Continuous In

Release

Block

People Access

Ready

Out

In

Continuous Out

Continuous In

Release

Block

Car Access 1

Closed

Open

Close

On

Off

Continuous Open

Car Access 2

In Motion

Open

Close

On

Off

Continuous Open

Car Access 3

Closed

Open

Close

On

Off

Continuous Open

Car Access 4

Closed

Open

Close

On

Off

Continuous Open

Truck Access

Open

Open

Stop

Close

On

Off

Automatic

Disabled Access

Ready

Out

In

Continuous Out

Continuous In

Release

Block

People Access

Ready

Out

In

Continuous Out

Continuous In

Release

Block

Car Access 1

Closed

Open

Close

On

Off

Continuous Open

Car Access 2

Open

Open

Close

On

Off

Continuous Open

Car Access 3

Closed

Open

Close

On

Off

Continuous Open

Car Access 4

Closed

Open

Close

On

Off

Continuous Open

Truck Access

Open

Open

Stop

Close

On

Off

Automatic

DETECTION TECHNOLOGIES

Solutions

Provided by Detection Technologies

	MultiSense	VibraSector	DuoTek Rack	DuoTek Net	DuoTek	UnoTek	MikroTek	VibraFon Dual	VibraFon Single
System type	point intrusion location	point intrusion location	a centralised rack of dual zone analysers	a network of decentralised dual zone analysers	dual zone analyser	single zone analyser	single zone analyser	dual zone analyser	single zone analyser
No. of alarm zones per system	300	98	64	64	2	1	1	2	1
Sensor type	- microphonic sensor cable - seismic sensor - acceleration & tilt sensor - 3rd party sensor	- microphonic sensor cable	- microphonic sensor cable	- microphonic sensor cable	- microphonic sensor cable	- microphonic sensor cable	- microphonic sensor cable	- 32 seismic sensors	- 16 seismic sensors
Protected structure	fence (metal & wood) walls / ceilings (brick/metal) gates	fence (metal & wood) walls / ceilings (metal) gates	fence (metal & wood) walls / ceilings (metal) gates	fence (metal & wood) walls / ceilings (metal) gates	fence (metal & wood) walls / ceilings (metal) gates	fence (metal & wood) walls / ceilings (metal) gates	fence (metal & wood) walls / ceilings (metal) gates	walls (brick) gates	walls (brick) gates
Detection range per analyser or server	up to 5,000m [1]	up to 1,000m	up to 600m [2]	up to 600m [2]	up to 600m [2]	up to 300m [2]	up to 300m [2]	up to 160m	up to 80m
Detection range with interconnected systems	unlimited	unlimited	unlimited	unlimited	-	-	-	-	-
System configuration	browser-based software	software	software	software	software	software	rotary knobs	software	software
Audio alarm verification	yes	yes	yes	yes	yes	yes	yes	yes	yes
Door / gate detection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Tamper detection	yes	yes	yes	yes	yes	yes	yes	yes	yes
I/O modules	yes	-	-	-	-	-	-	-	-
Encryption	yes	-	-	-	-	-	-	-	-
External contacts per analyser (e.g. door or gate contacts)	-	4	4	4	4	2	-	4	2
Ways of integrating into CCTV and management systems	Dry relay contacts: - I/O modules - Relay rack TCP/IP: - OPC UA	Dry relay contacts: - 1 x global alarm - 1 x global tamper - up to 100 x zone alarm TCP/IP: - UDP - Modbus	Dry relay contacts: - 2 x zone alarm - 2 x zone tamper	Dry relay contacts: - 2 x zone alarm - 2 x zone tamper	Dry relay contacts: - 2 x zone alarm - 2 x zone tamper	Dry relay contacts: - 1 x zone alarm - 1 x zone tamper	Dry relay contacts: - 1 x zone alarm - 1 x zone tamper	Dry relay contacts: - 2 x zone alarm - 2 x zone tamper	Dry relay contacts: - 1 x zone alarm - 1 x zone tamper
Interfaces	2 x Ethernet (RJ45) 1 x Audio 1 x Power 16 – 48vDC	1 x Ethernet (RJ45) 1 x Audio 1 x Power 9 – 24vDC	1 x USB 2 x Audio 1 x Power 9 – 24vDC	2 x RS485 2 x Audio 1 x Power 9 – 24vDC	1 x USB 2 x Audio 1 x Power 9 – 24vDC	1 x USB 1 x Audio 1 x Power 9 – 24vDC	1 x Audio 1 x Power 9 – 24vDC	1 x USB 2 x Audio 1 x Power 9 – 24vDC	1 x USB 1 x Audio 1 x Power 9 – 24vDC
Operating temperature	- 40° to + 70° Celsius	- 40° to + 70° Celsius	- 40° to + 70° Celsius	- 40° to + 70° Celsius	- 40° to + 70° Celsius	- 40° to + 70° Celsius	- 40° to + 70° Celsius	- 40° to + 70° Celsius	- 40° to + 70° Celsius

[1] depending on the MultiSense Node distance

[2] depending on the type of perimeter struckture (see table below)

Detection Technologies

Experts in **Protecting Perimeters Worldwide**

Contact us now

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