



# Perimeter Security Systems Detect Them at The Perimeter

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**Real Time Detection Because Cameras are not Enough!  
Prevent Theft and Vandalism Before They Enter**

# Our End Users & Their Solutions



RV/Camper & Boat Storage Facility



PV Solar Farms



Electric Infrastructure



Oil & Gas



Car, Truck, Heavy Equipment Dealerships



VIP Residential / Gated Communities



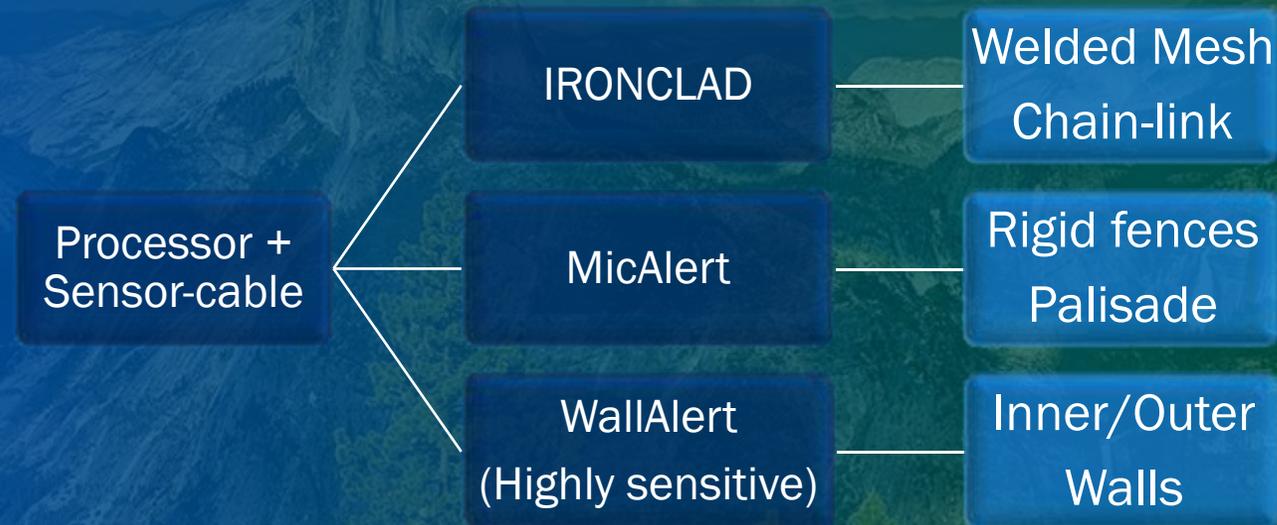
Manufacturing + Logistic / Industrial



Cannabis Grow Operation

# Our Plug & Play Systems

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# IRONCLAD

## Fence Alarm System

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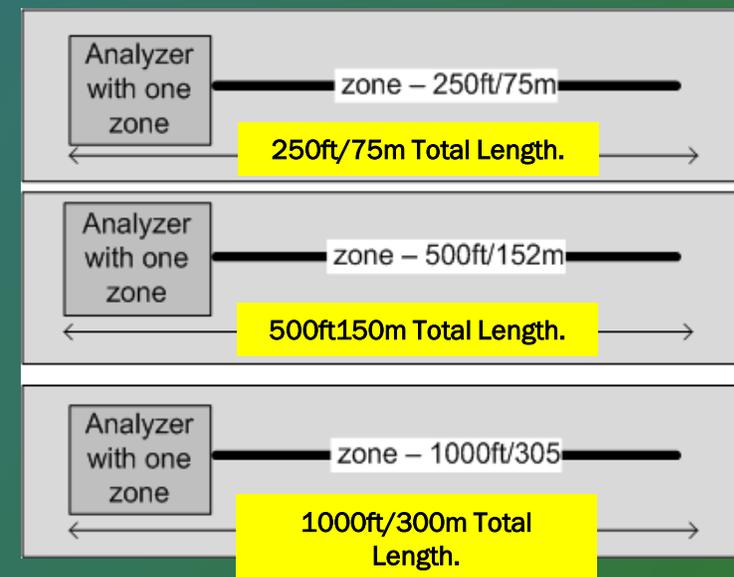
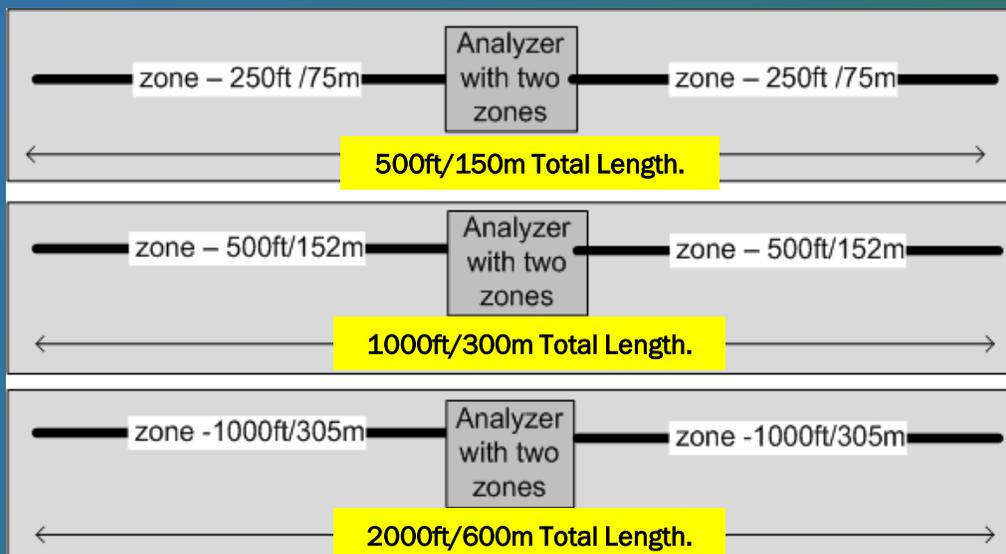
Simple, Reliable and Affordable  
Perimeter Intrusion Detection System

The IRONCLAD is a sensor cable designed to detect cuts or climbs for fences for commercial, industrial, and enterprise applications.

- ✓ Plug & Play installation, Anyone can install the system without prior experience!
- ✓ Economical and affordable technology to cover 100% of the perimeter
- ✓ No training or special tools are required. Comes with an installation manual.
- ✓ No sophisticated calibration, zone sensitivity easily adjusted
- ✓ Protects fences up 10ft/3m with a single cable.
- ✓ No maintenance needed
- ✓ 2x Dry contact relay alarm outputs (NO or NC), can be connected to any alarm system/DVR/access control/SCADA.

# The kit includes:

- 1x – LPU Processor board
- 1x – Weatherproof enclosure
- 1x or 2x Spools of sensor cable in the chosen length
- 2x End of line termination units (MCTR)

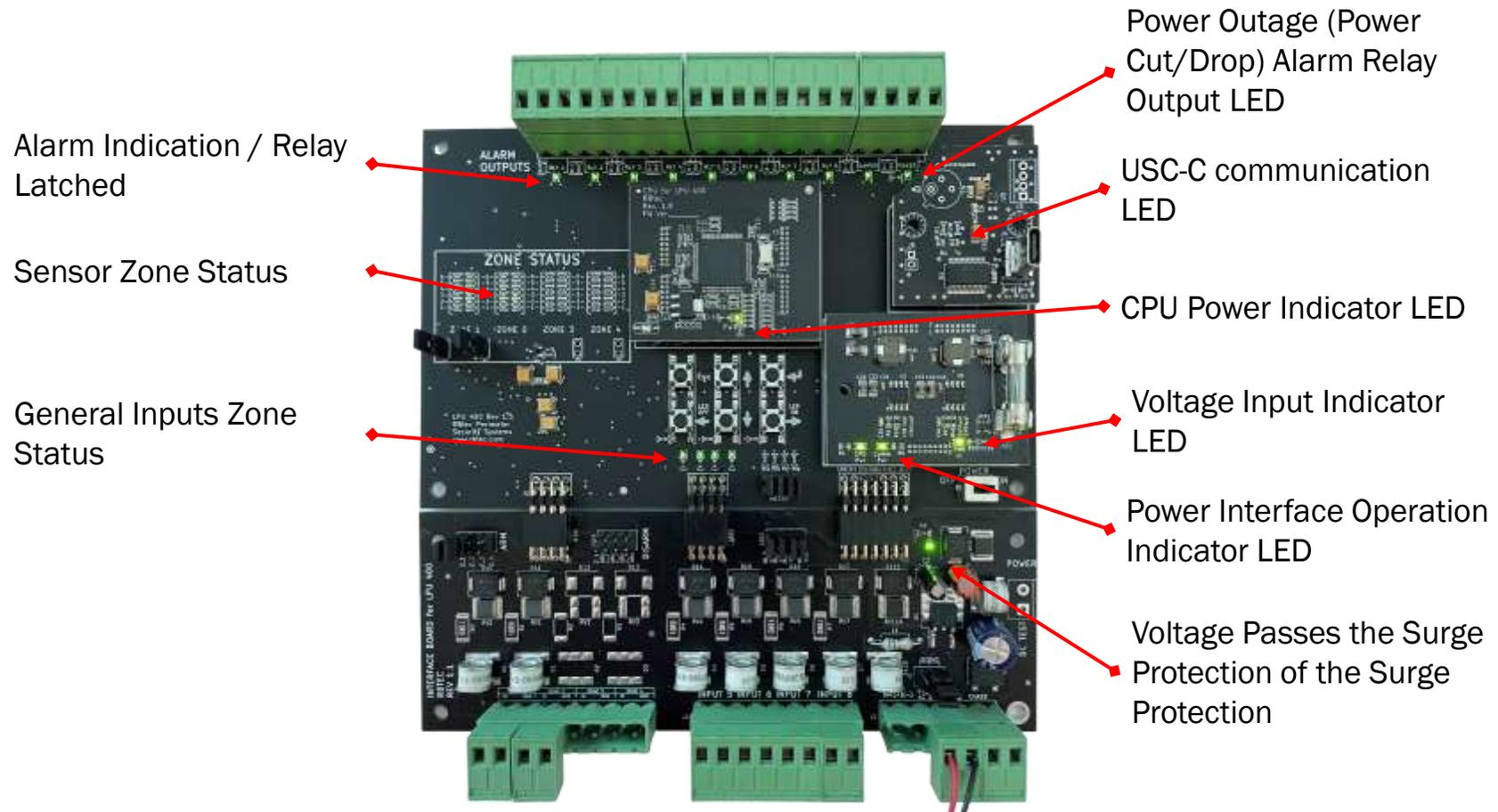




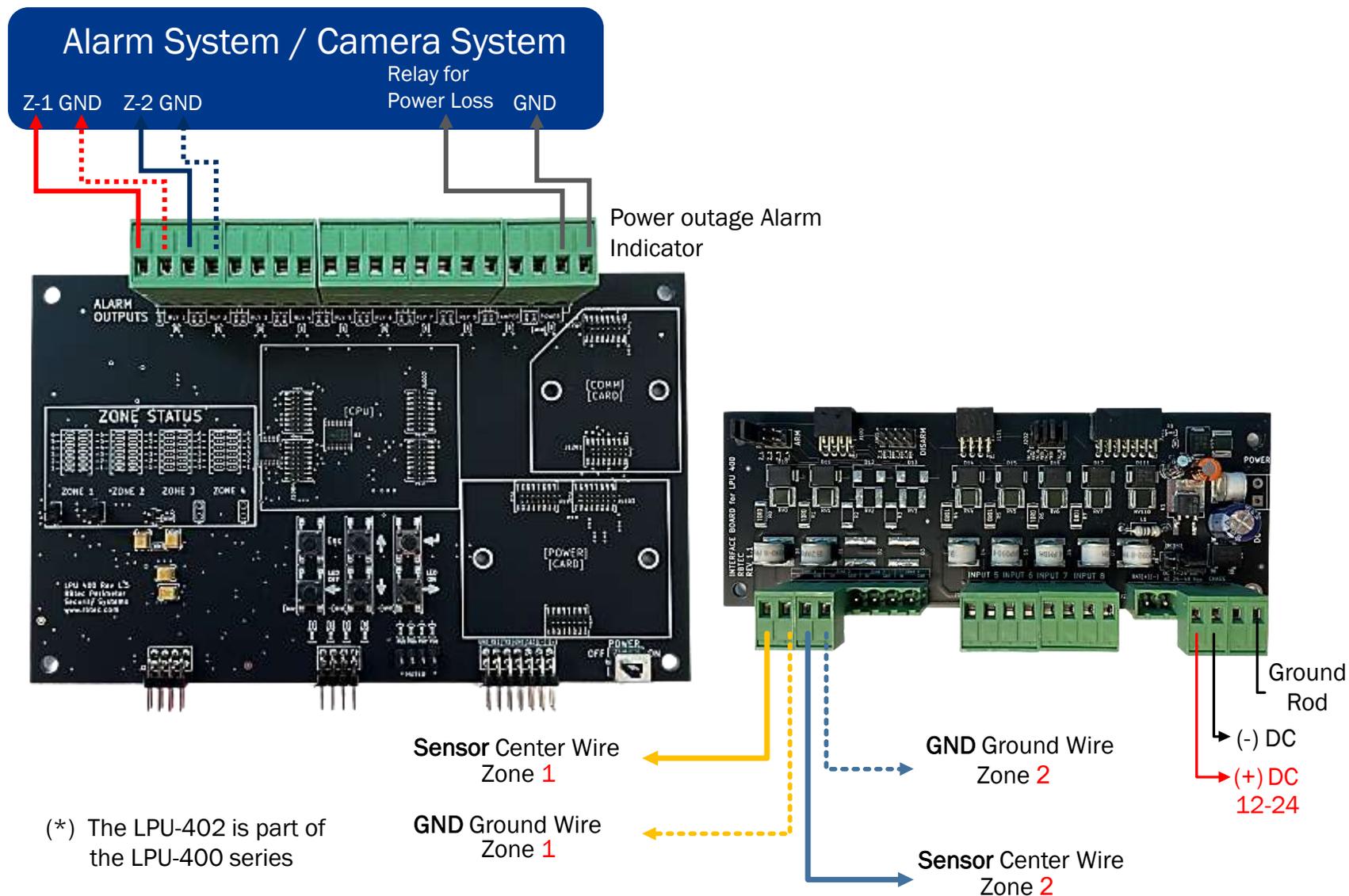
<https://youtu.be/mr8uUI2cIJQ>



# LPU-400 – Indicator Lights Overview



# LPU-402 Wiring Overview (\*)



(\*) The LPU-402 is part of the LPU-400 series

# Optional Calibration Software

**Chosen Zone to View**

**Which Relay The Chosen Zone Triggers**

**Sensitivity Level**

**Sensitivity Range**

**NO/NC Adjustment**

**Relay Latch Time**

The screenshot displays the calibration software interface. At the top, a configuration table lists various parameters for Zone 1:

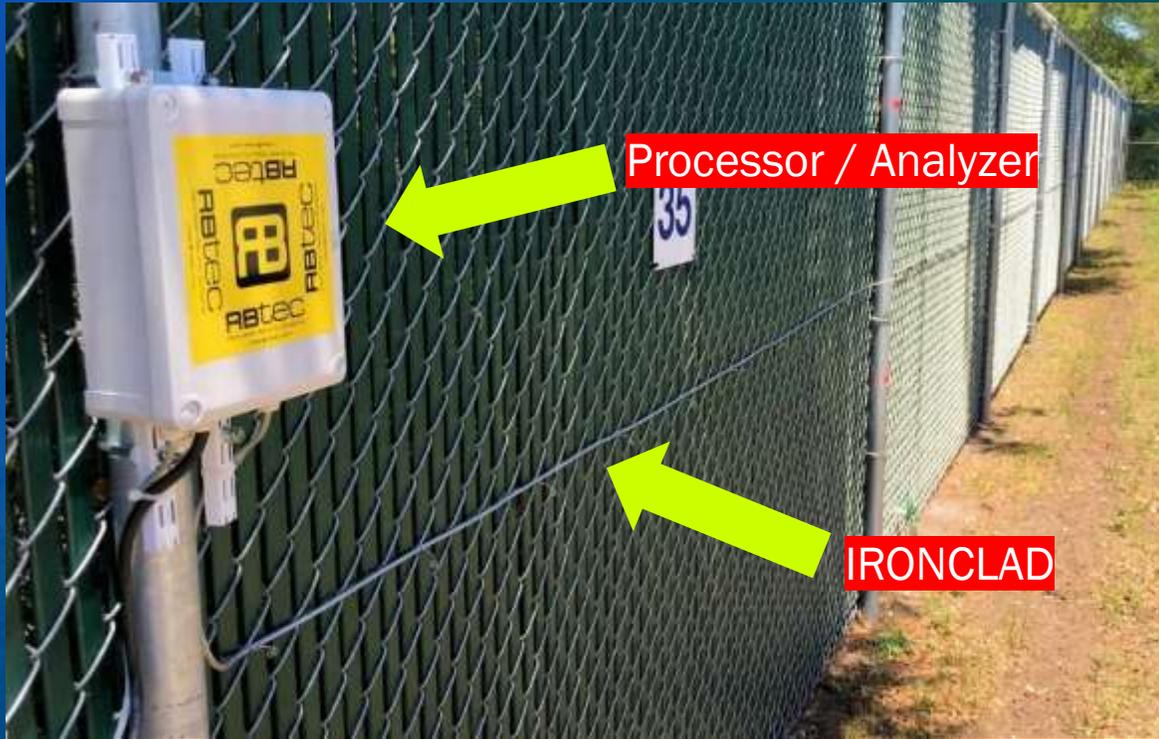
Zone	R1	R2	R3	R4	R5	R6	R7	R8	Sensitivity	MIN Sens	MAX Sens	MIN Signal	MAX Signal	Bkt Inflow	Bkt Outflow	ALARM Threshold	Rly Override Enable	Rly Override Value	N.O.	Timer
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100	0	143	100	100	200	1	7000	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1					

The main display area is divided into two sections: "REAL TIME VIEW" and "STATUS AND DATA". The "REAL TIME VIEW" shows a graph of the "Sensor Signal" (green line) over time. A vertical blue line indicates the current signal value. A red arrow points to the green line with the text "Sensor Signal". Another red arrow points to the top of the graph with the text "Green Line Indicates alarm level When the line reaches the top of the screen alarm is triggered". The "STATUS AND DATA" window shows the connection status: "Connected Serial Port COM3. LPU S.W. VER: 1.0.0.1" and "COM3 CONNECTED." with a red arrow pointing to it and the text "Status Window".

On the left side, there are controls for "Graphing Mode" (Roll/Normal), "Freeze Signal Display", and "CAPTURE". Below these are buttons for "Read LPU", "Write LPU", "Flash LPU", and "Reset LPU". A red arrow points to the "Write LPU" button with the text "Read and Write Setting from/to LPU".

At the bottom, the "CONNECTION STATUS" is shown as "CONNECTED" and "ZONE SELECTED FOR DISPLAY" is "1".

# System Installation



Labor Estimate:  
300m/1000ft of  
fence line per day for  
2 techs -  
4 hours labor



# End Of Line Termination Kit - MCTR

Simple installation

End Of Line Termination Kit - MCTR



Extension/Repair Kit - MCTXT



# Protecting Different Types of Gates

**Sliding gate** – For sliding gates we have what we call a sliding gate kit, the kit includes a spring loaded roller that is mounted next to gate and rolls in and out a non-sensitive cable to bridge the gap between the moving gate and the fixed fence.



**Swing gate** – For swing gates there is no need for special equipment since the sensor cable is flexible. From the fence continue over the gate and do a U turn back to the fence. In order to bypass the gate the cable needs to be spliced with RG6 into a conduit and then spliced back on the other side. Splicing with RB-RBMCTXT Box

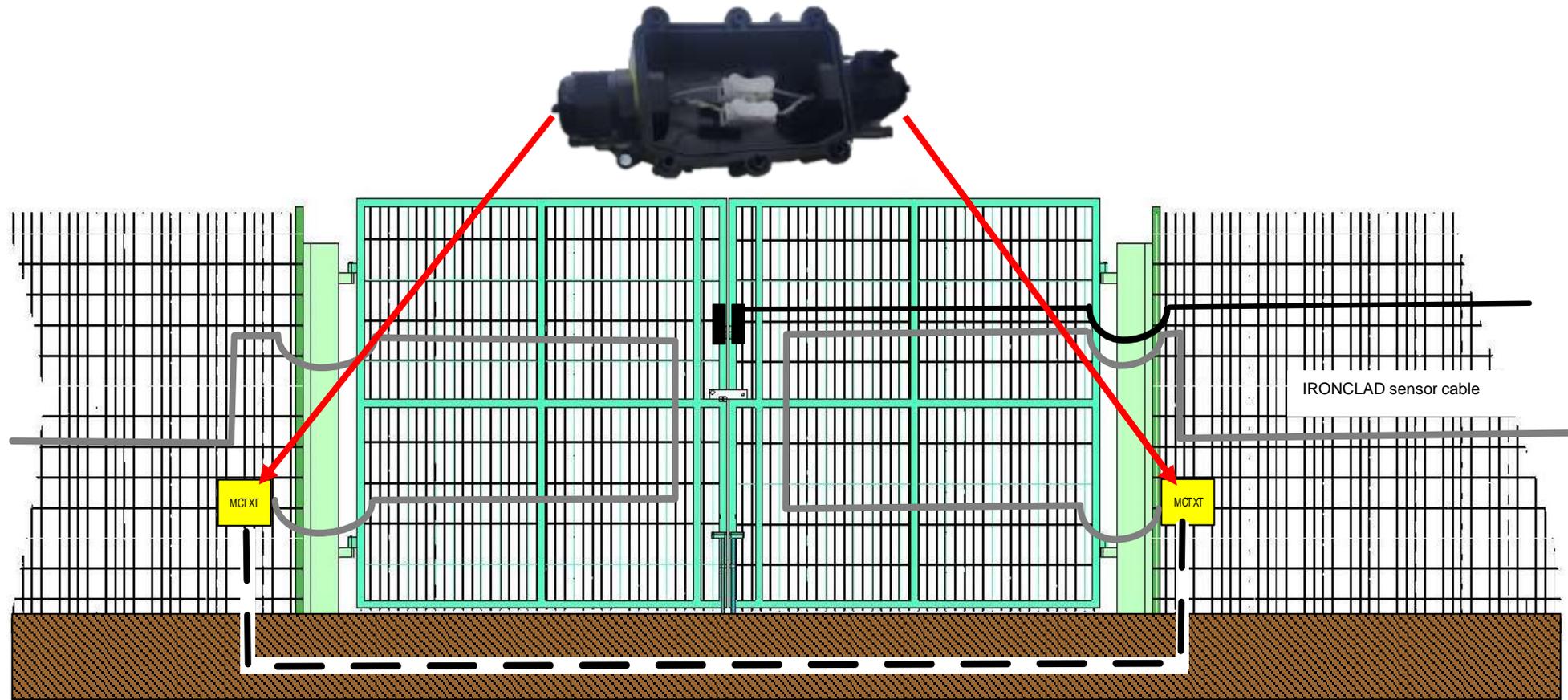


**Emergency gate / No Conduit** – For swing gates where there is no conduit or the gate rarely opens there is an option to splice the cable and install a pull out quick connector which allows to open the cable and as a result open the gate the cable is going over.



# Swing Gate Protection

RB-MCTXT  
Junction Box



Non-sensitive cable RG6 Direct Burial under the gate in waterproof conduit

North America and Latin America Part Number / Code	Part Description and kit content	Quantities
<b>RB-IROC1Z250</b> <b>SINGLE ZONE KIT 250ft/75m</b>		
RB-IROC250	Outdoor armored sensor cable. Roll of 75m/250' of sensor cable	1 rolls
RB-MCTR	End-of-line termination board. Pre-installed at end of sensor cable	1 units
RB-LPU402	Local Processor (LPU-402 Analyzer) Unit (Dual Zone) w/ 2 relay output	1 unit
RB-JB402	IP66 / NEMA4X rated weatherproof enclosure for LPU-402 processing unit	1 unit
<b>RB-IROC2Z250</b> <b>DUAL ZONE KIT 500ft/150m (2x250ft/75m)</b>		
RB-IROC250	Outdoor armored sensor cable. Roll of 75m/250' of sensor cable	2 rolls
RB-MCTR	End-of-line termination board. Pre-installed at end of sensor cable	2 units
RB-LPU402	Local Processor (LPU-402 Analyzer) Unit (Dual Zone) w/ 2 relay output	1 unit
RB-JB402	IP66 / NEMA4X rated weatherproof enclosure for LPU-402 processing unit	1 unit
<b>RB-IROC1Z500</b> <b>SINGLE ZONE KIT 500ft/150m</b>		
RB-IROC500	outdoor armored sensor cable. Roll of 152m/500' of sensor cable	1 roll
RB-MCTR	End-of-line termination board. Pre-installed at end of sensor cable	1 unit
RB-LPU402	Local Processor (LPU-402 Analyzer) Unit (Single Zone) w/ 1 relay output	1 unit
RB-JB402	IP66 / NEMA4X rated weatherproof enclosure for LPU-402 processing unit	1 unit
<b>RB-IROC2Z500</b> <b>DUAL ZONE KIT 1000ft/300m (2x500ft/150m)</b>		
RB-IROC500	outdoor armored sensor cable. Roll of 152m/500' of sensor cable	2 rolls
RB-MCTR	End-of-line termination board. Pre-installed at end of sensor cable	2 units
RB-LPU402	Local Processor (LPU-402 Analyzer) Unit (Dual Zone) w/ 2 relay output	1 unit
RB-JB402	IP66 / NEMA4X rated weatherproof enclosure for LPU-402 processing unit	1 unit
<b>RB-IROC1Z1000</b> <b>SINGLE ZONE KIT 1000ft/300m</b>		
RB-IROC1000	outdoor armored sensor cable. Roll of 305m/1000' of sensor cable	1 roll
RB-MCTR	End-of-line termination board. Pre-installed at end of sensor cable	1 unit
RB-LPU402	Local Processor (LPU-402 Analyzer) Unit (Single Zone) w/ 1 relay output	1 unit
RB-JB402	IP66 / NEMA4X rated weatherproof enclosure for LPU-402 processing unit	1 unit
<b>RB-IROC2Z1000</b> <b>DUAL ZONE KIT 2000ft/600m (2x1000ft/300m)</b>		
RB-IROC1000	outdoor armored sensor cable. Roll of 305m/1000' of sensor cable	2 rolls
RB-MCTR	End-of-line termination board. Pre-installed at end of sensor cable	2 units
RB-LPU402	Local Processor (LPU-402 Analyzer) Unit (Dual Zone) w/ 2 relay output	1 unit
RB-JB402	IP66 / NEMA4X rated weatherproof enclosure for LPU-402 processing unit	1 unit



# MICALERT

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Vibration sensor cable for Rigid Metal Fences

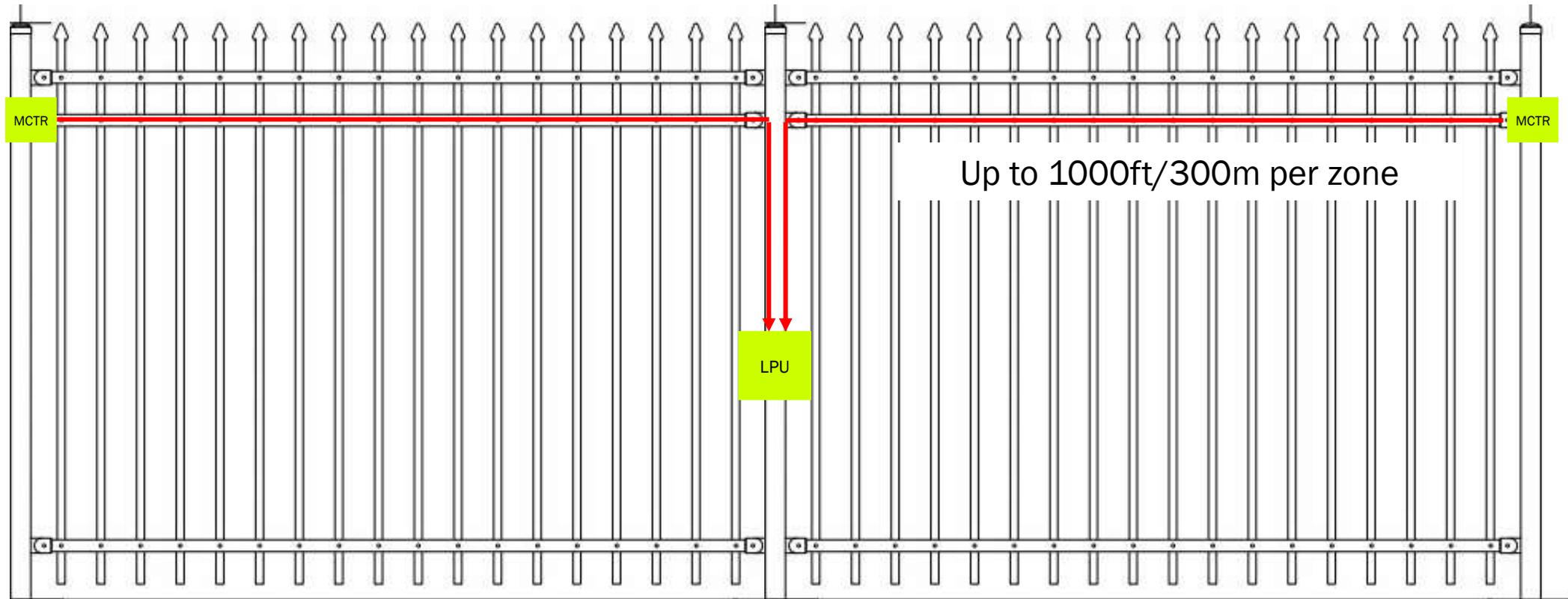
# Packaging options per Micalert kit

Zone number / Zone length	1 Zone	2 Zone System
75m / 250ft	75m / 250ft	75m / 250ft Per zone - 150m / 500ft System
150m / 500ft	150m / 500ft	150m / 500ft Per zone - 300m / 1000ft System
300m / 1000ft	300m / 1000ft	300m / 1000ft Per zone - 600m / 2000ft System

# Types of MICALERT kits



# MicAlert Example Diagram



## Optimal Layout:

- The diagram shown above shows how the MicAlert system should appear when installed correctly.
- Please note the positioning of the sensor cable approximately halfway up the fence and running parallel to the ground.
- Deviation from this template will result in decreased performance.

# Sensor Cable Installation (MicAlert)



- The sensor cable **must** be attached to the **internal (protected)** side of the fence.
- Outdoor Zip-Ties or metal clips are recommended. Place approximately every 12 inches/30 cm.
- The cable must be attached to a support strut similar to the ones shown on the upper half of the fence. If there are multiple, attach the cable to the lowest strut on the upper half of the fence.

# WallAlert

Vibration sensor cable that protects walls and drywall against impacts caused by intrusions attempts.



# Packaging options per WallAlert kit

Zone number / Zone length	1 Zone	2 Zone System
75m / 250ft	75m / 250ft	75m / 250ft Per zone - 150m / 500ft System
150m / 500ft	150m / 500ft	150m / 500ft Per zone - 300m / 1000ft System
300m / 1000ft	300m / 1000ft	300m / 1000ft Per zone - 600m / 2000ft System

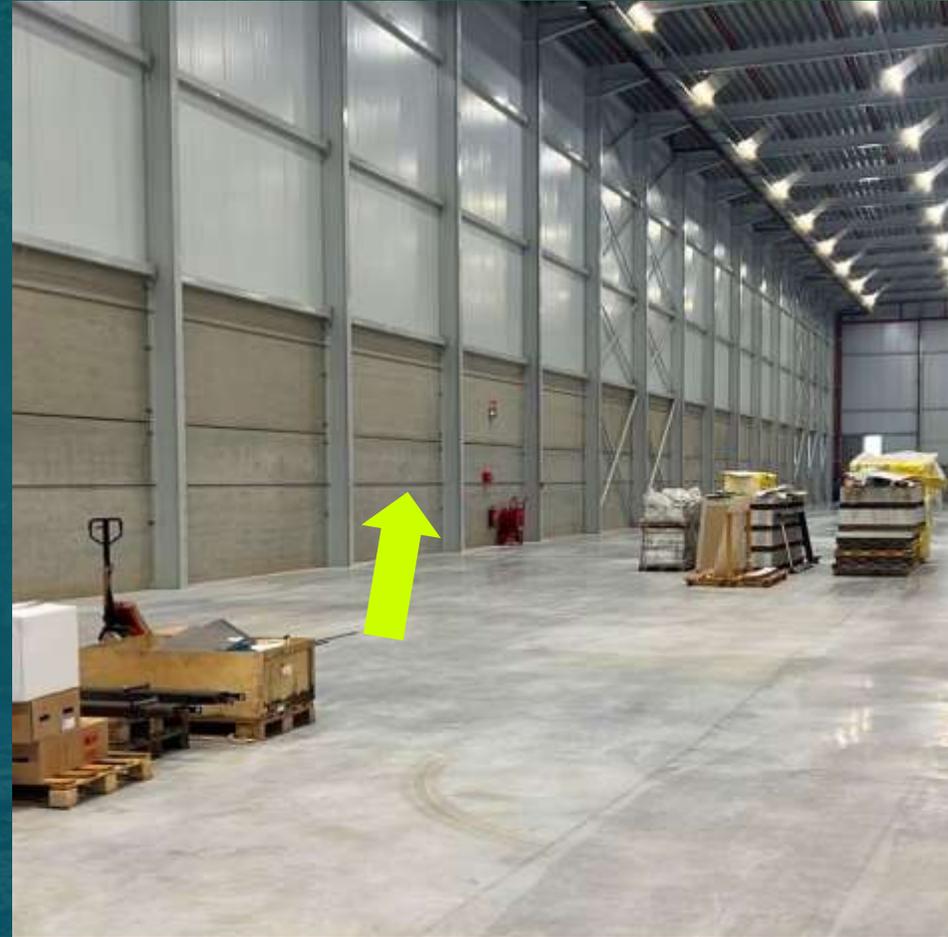
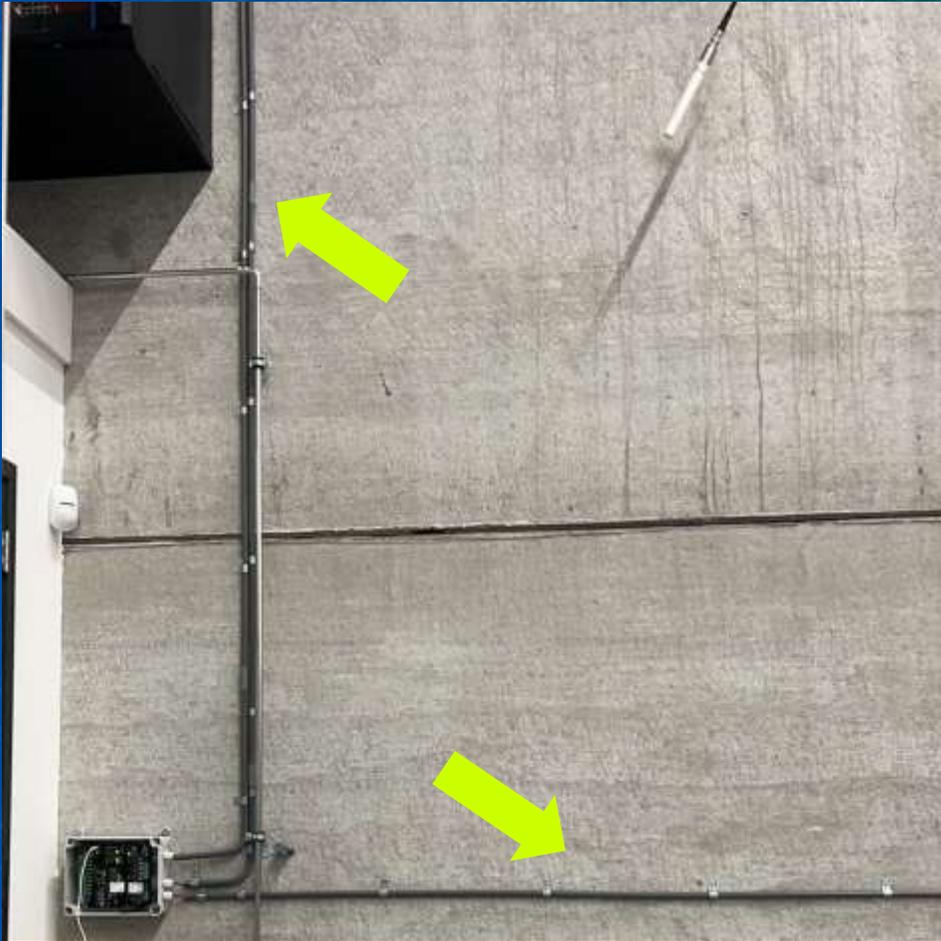
# Types of WallAlert kits



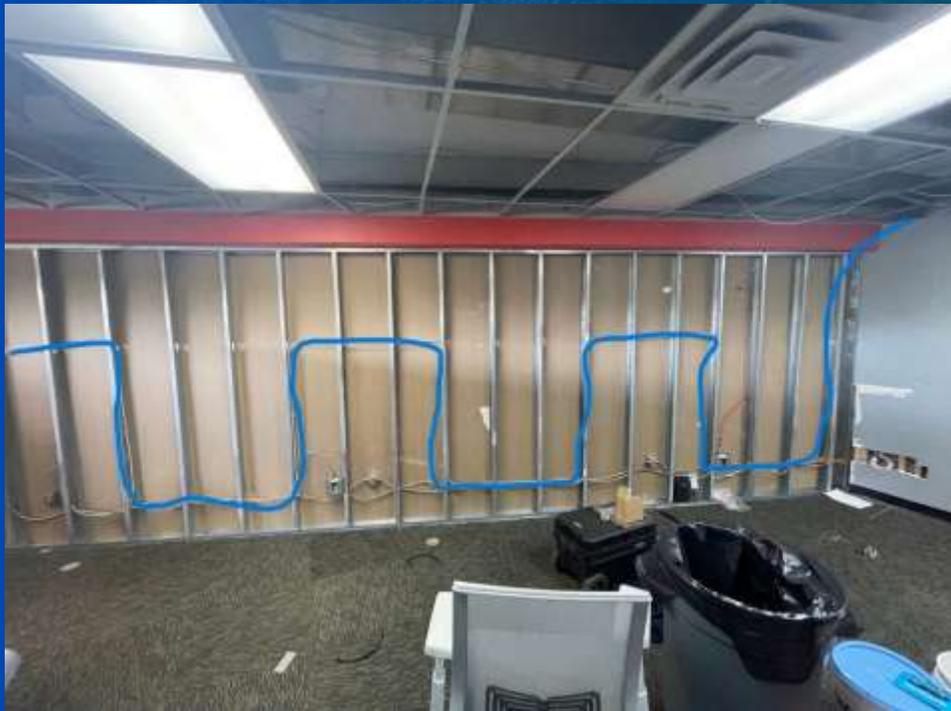
# EXAMPLES OF WALLALERT INSTALLATIONS



# EXAMPLES OF WALLALERT INSTALLATIONS



# EXAMPLES OF WALLALERT INSTALLATIONS





# Video Analytics And Beams Are Better...

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## Are They Though?

# RBtec Sensor Cable

VS

# Video-Analytics

## Functionality

- 100% perimeter coverage in all conditions
- Little to no False Alarms in all conditions
- Ability to ignore when the fence is touched or shaken and to alert only when the fence line is being cut or climbed on

- Line of sight- Vehicles, people, planation can create blind spots/trigger false-alarms
- Challenging weather conditions can lead to false alarms or non-detection.
- Can't differ between intruders to unharmlful passerby

## Distribution

- One inclusive Plug & Play Kit (one item-code).

- Video Analytics infrastructure consist of many different products: Cameras, Poles, Mounts, POE, NVR/DVR. Etc.

## Cost & Maintenance

- Almost Zero maintenance
- One-time expense

- Annual maintenance
- Annual license per camera
- High infrastructure costs and incidental expenses

## Integration & Installation

- Installed directly on the fence line on all terrains
- No need for certification, special tools, prior experience, calibration, or software
- Easy connection to alarm panels/NVR

- Complex Site design-choosing & poisoning the cameras.
- Power & communication connection are needed for each camera. NVR/DVR needed.

## Profitability

- Relatively low competition
- Margins are typically higher

- Relatively High competition
- Margins are typically Lower

# RBtec Sensor Cable

VS

# IR Beams

## Functionality

- 100% perimeter coverage at all conditions
- Little to no False Alarms in all conditions
- Ability to ignore when the fence is touched or shaken and to alert only when the fence line is being cut or climbed on

- Challenging weather can lead to false alarms and/or non-detection.
- Sensors can be blinded by the sun/flashlight
- Can't differentiate between an unarmful animal/passerby and an actual intruder

## Distribution

- One inclusive Plug & Play Kit (one item-code).

- Beams infrastructure consists of many products (multiple item-codes)

## Cost & Maintenance

- Almost Zero maintenance
- One-time expense

- Trimming nearby vegetation
- Cleaning the lenses regularly

## Integration & Installation

- Installed directly on the fence line on all terrains
- No need for certification, special tools, prior experience, calibration, or software
- Easy connection to alarm panels/NVR

- Complex Site design–Sensors must “See” each other. Each turn, curve or height difference across the perimeter, requires stationing another set of sensors.
- Require approx. 1 meter of a sterile area around the fence line

## Profitability

- Relatively low competition
- Margins are typically higher

- Relatively High competition
- Margins are typically Lower

# Perimeter Layout Design

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Based on the information you collected above, it's now time to divide the perimeter to zones. Here what you should consider



## Security Plan

Divide the perimeter for zones to comply with the security planes. For example camera coverage

Multiple Shorter zones = Higher precision of detection resolution



## Topography

Divide the site layout into zones that comply with the topography of the site such as North, South side or road vs back



## Budget

Less zones, reduces the price.

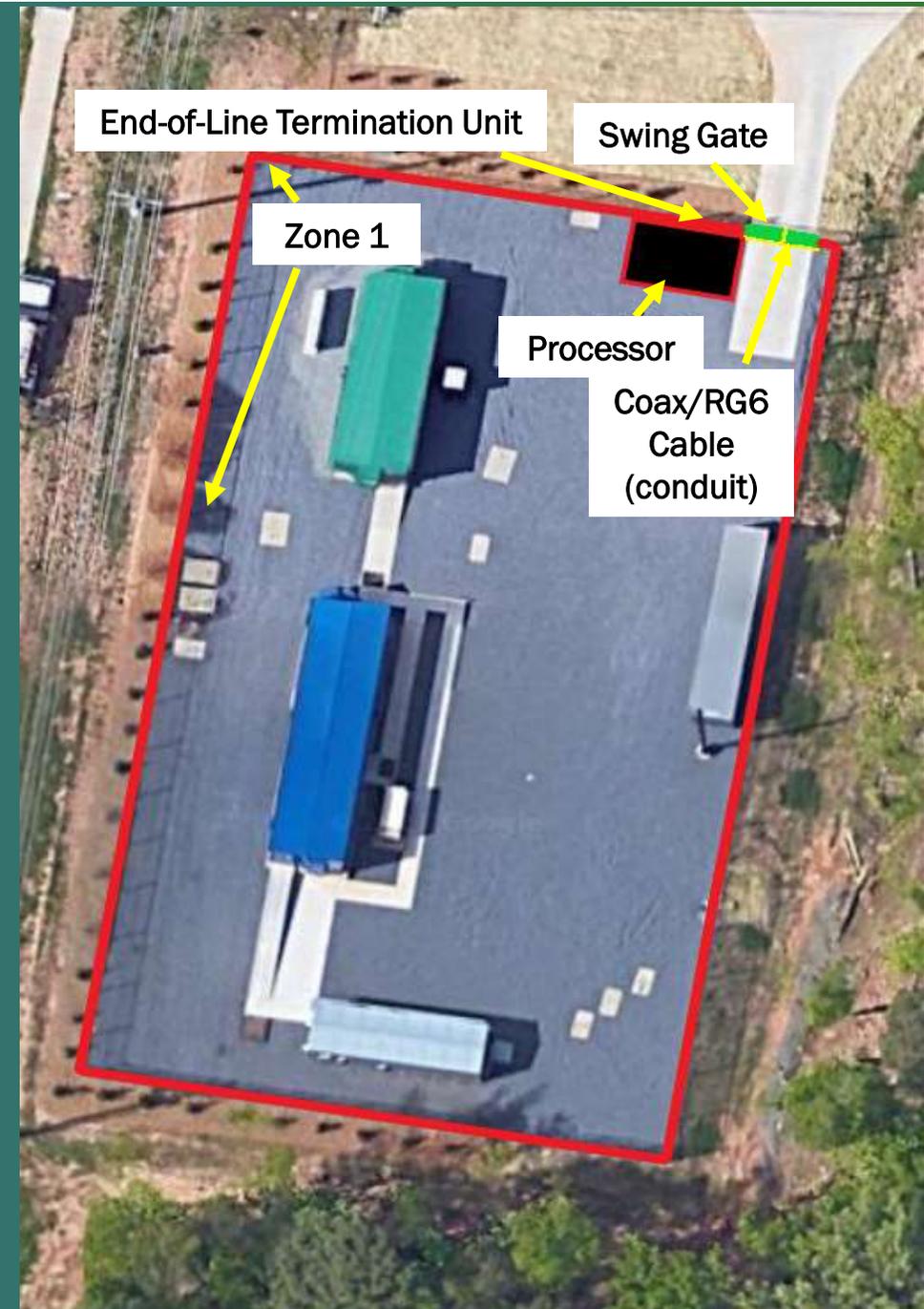
Longer/max length zones – Cheaper solution since less processors will monitor more cable/fence.

## Example Site I: 700ft/213m Fence 1 Processor, 1 Zone, 1 Swing Gate

Simple and affordable setup utilizing 1 processor directly on the fence, 1 sensor zone, and incorporating 1 swinging gate.

- In this configuration we have 1 processor that monitors 1 sensor cable. These components are all included in the RB-IROC1Z1000 kit.
- The advantage of this configuration is that the installation is the very simple, as the entire perimeter is covered by 1x700'/213m zone (trimmed down from the 1000' roll provided in the kit) that runs around the entire perimeter and through the gate, and terminates in an end-of-line unit back by the processor.
- The swing gate is covered by the sensor as shown earlier in this presentation. The sensor cable runs through both gate arms and connects under the gate via non-sensory RG6 coax, splicing out and back in using the RB-MCTXT splice terminal.
- The entire sensor line terminates adjacent to where it begins in an end-of-line termination unit (MCTR) which comes included in the RB-IROC1Z1000 kit.

Quantities	USA/Canada/Latin America Codes	Rest of the world	Description
1	RB-IROC1Z1000	RB-IROC1Z300	1-Zone Processor with 1x300m/1000' roll and EOL (end of line) kit
2	RB-MCTXT	RB-MCTXT	Extension junction box to splice RG6 coax under the gate
3	RB-RBTIES610	RB-RBTIES610	Stainless steel twist ties and tool

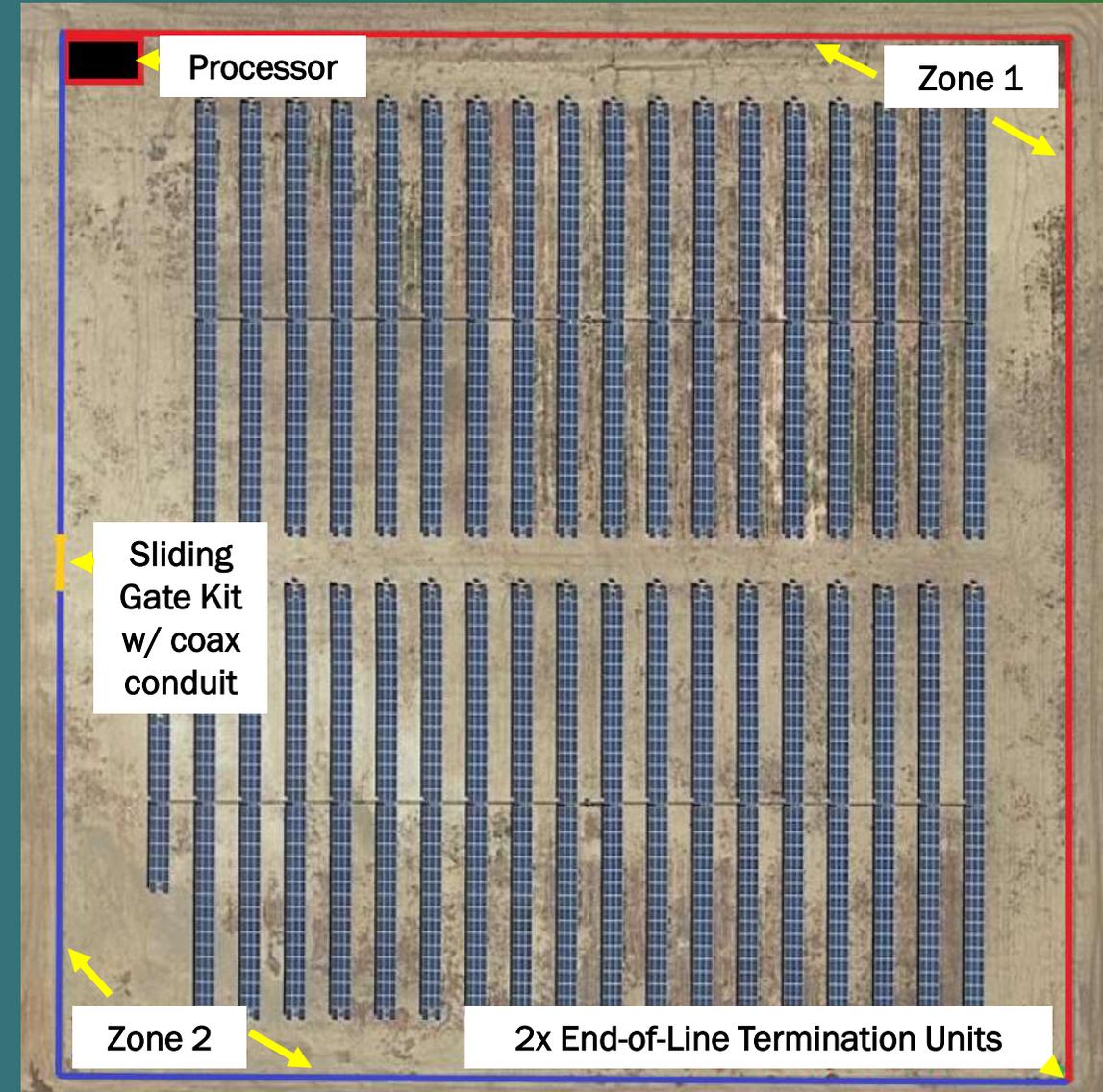


## Example Site 2: 2000ft/600m Fence 1 Processor, 2 Zones, 1 Sliding Gate

Simple and affordable setup utilizing 1 kit, providing larger-scale perimeter coverage, 2 sensor zones, and incorporating 1 sliding gate.

- In this configuration we have one processor that monitors 2 sensor zones. These components (except for the sliding gate kit) are all included in the RB-IROC2Z1000 kit.
- The advantage of this configuration is that the installation is simple, as the entire perimeter is covered by 2x1000'/300m zones that start at the processor and run left and right around the entire perimeter. The sliding gate is easily integrated into Zone 2 the RBtec Sliding Gate Kit (all included in the RB-SLIDINGKIT).
- The sensor lines terminate opposite to the processor's location in 2 end-of-line termination units (MCTR) which come included in the RB-IROC2Z1000 kit.

Quantities	USA/Canada/Latin America Codes	Rest of the world	Description
1	RB-IROC2Z1000	RB-IROC1Z300	2-Zone Processor with 2x300m/1000' roll and 2 EOL (end of line) kits
1	RB-SLIDINGKIT	RB-SLIDINGKIT	30 ft Reel in a Weatherproof Enclosure + 2 RBMCTXT Junction Boxes
3	RB-RBTIES610	RB-RBTIES610	Stainless steel twist ties and tool



# Our End Users

## Examples of Markets and Installations

# IRONCLAD

## Fence Alarm System

Works on any fence • Plug & Play installation • No training or certification needed • Connects to any alarm system



## SECURE YOUR

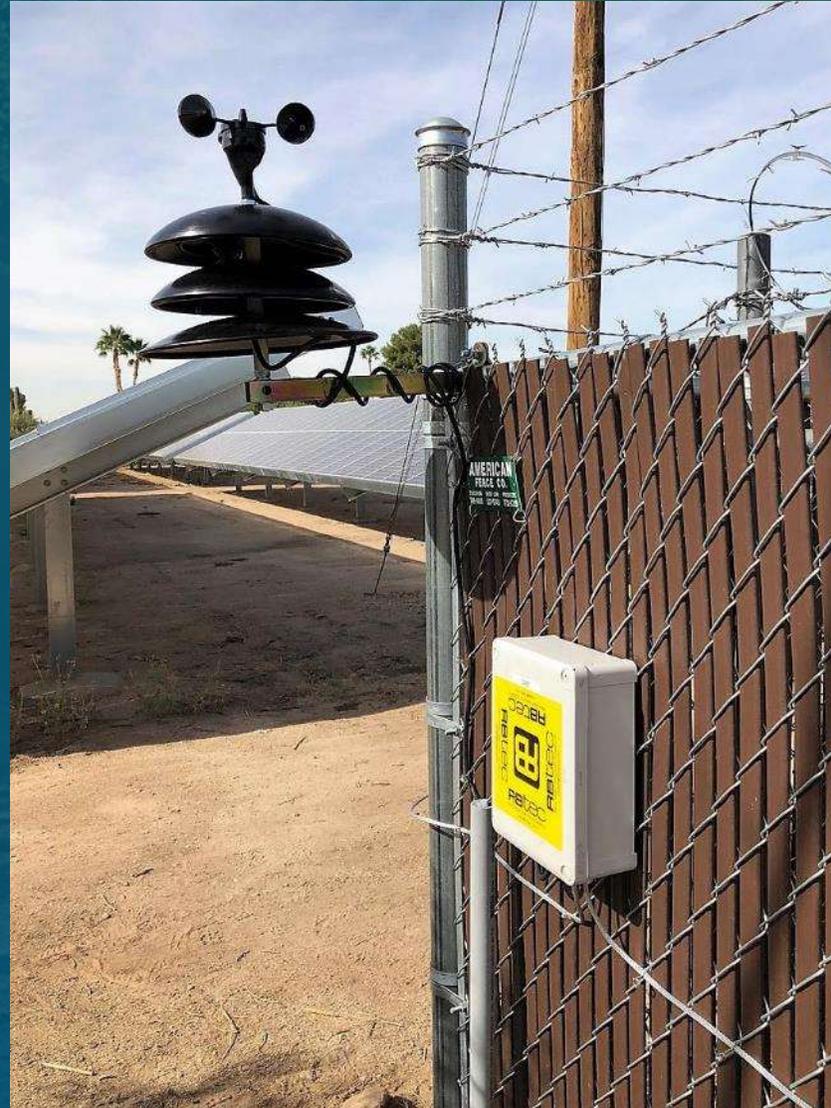
## BUSINESS



# Industrial Outdoor Storage



# PV Solar Farm / Solar Parks



# RV / Camper Storage Sites and Dealerships



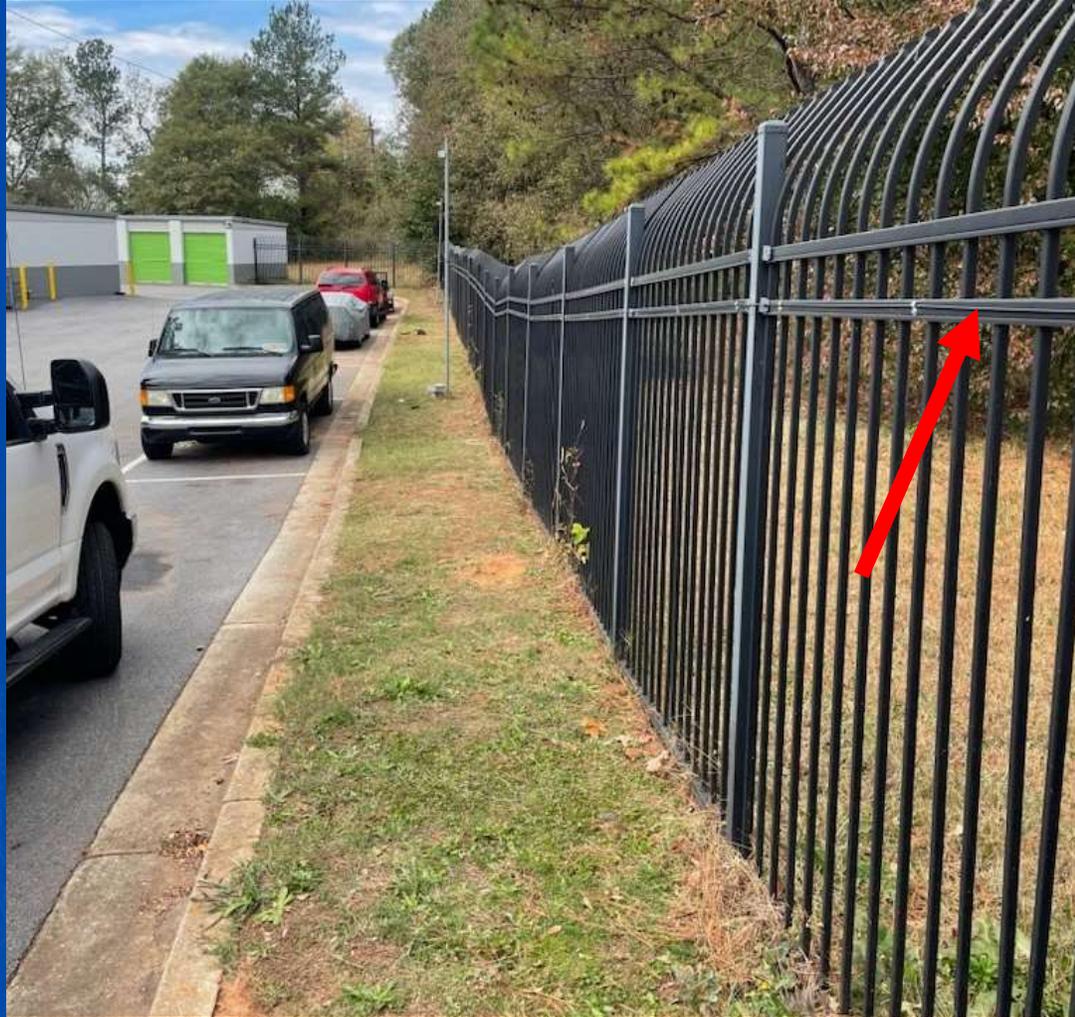


# Cannabis Grow Farms

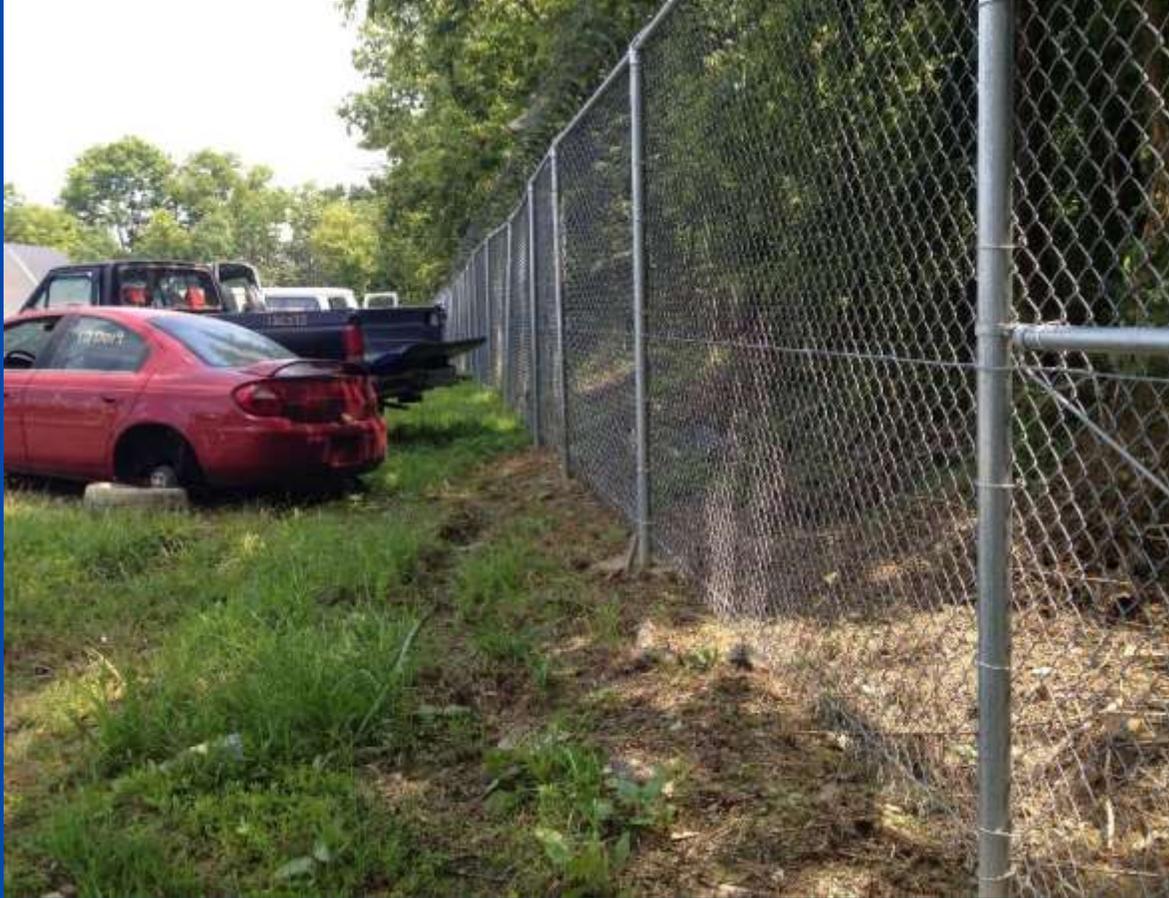




# Self Storage Facilities



# Scrape Yards and Recycling

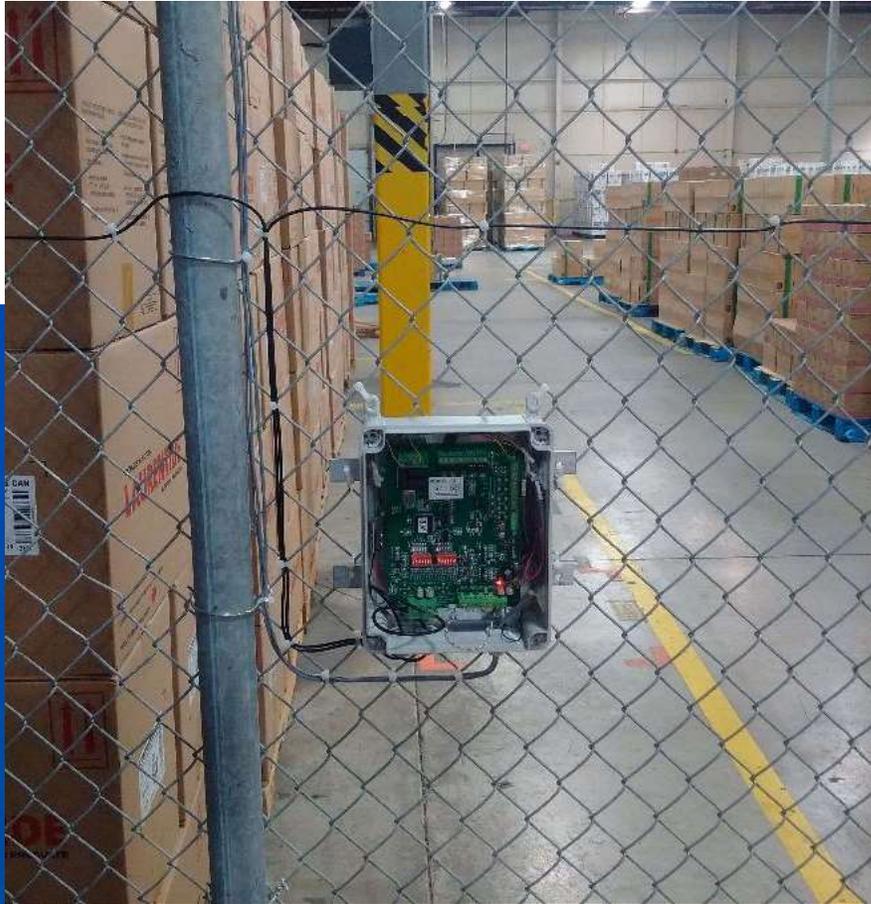




# Transportation / Logistics



# Indoor Fence Areas / Cages



# Electrical, Oil and Gas Substations



# Electrical, Oil and Gas Service Yards and Storage





# Data Centers



# Gated Community, Golf Clubs, Estates



# Local Government Sites

Police stations, city service yards



# Different applications

Public pool, Nursing home



# Different Infrastructure



# Wireless or Wired – Solar or DC Power



# Thank you! Any Questions?

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Perimeter Security Systems