SenseGiz

Set no limits...

Perimeter Intrusion Detection System using Sensors, PTZ Cameras & AI.

Our Entire Hardware and Software is designed and manufactured in India

Mission/Vision and Global Footprint

About Us:

SenseGiz makes enterprise and industrial IoT solutions for sensor based condition monitoring, security and real time asset/people tracking applications using a combination of proprietary mesh connected hardware, cloud, analytics and apps.

Mission:

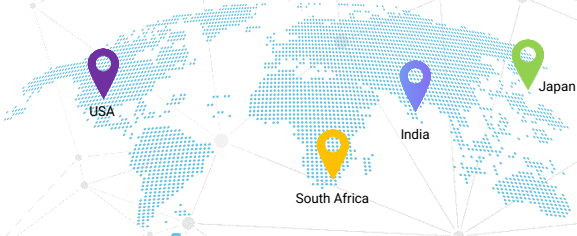
To help our customers increase their efficiency and reduce costs by monitoring the health of machines and track assets/people real-time.

Vision:

To make the world a more productive, safer and secure place to live in, with access to affordable technology.

3 Patents Granted

1 Patent Pending



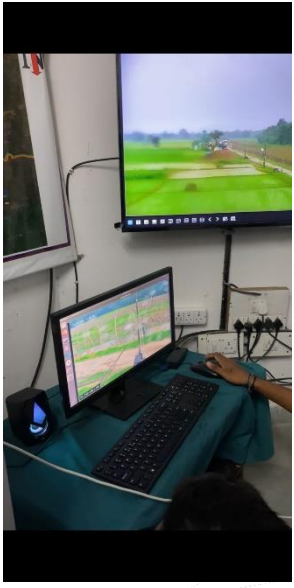
4 Locations Worldwide

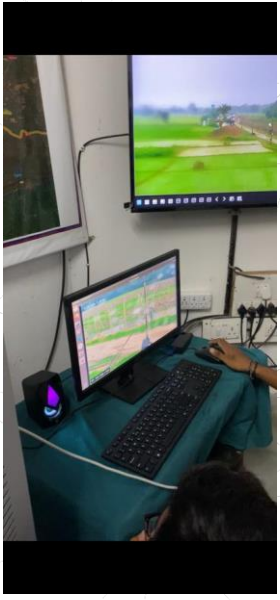
60,000+ Devices Sold

Awards


GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP
National
Entrepreneurship Awards 2017
To SenseGiz Technologies Pvt. Ltd
₹ 5,00,000

Deployment for BSF

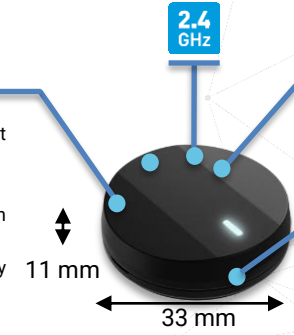




COIN - Our Flagship Product

Communication and Range

- Our data pipes support high speed & packet heavy data transfers
- Self-learning and self-healing capabilities.
- Range - 180 ft per node. Range increases with more nodes in the mesh.
- Machine learning & edge computing on every node.



Onboard Sensors

Temperature Humidity Angular movement Vibration

Efficient battery

Battery life 2 years*

Through our COIN, we have created a Proprietary Mesh Network on top of 2.4 GHz based Wireless Communication Network

YouTube

Click here to watch the video of our multi-function product COIN:

Gateway for COIN: Wi-Fi, Ethernet, LTE

WiFi / Ethernet Gateway

LTE Gateway

WiFi Gateway (Water Proof)

- The Gateway used is a WiFi gateway built by SenseGiz.
- On the wireless mesh side, the gateway is a part of the low power, point to point mesh network.

Ethernet Gateway (Water Proof)

- Mostly used if the facility does not have Wi-Fi, does not permit or restrict the use of Wi-Fi.
- Our Ethernet Gateway can also store data on your cloud server using our platform.

LTE Gateway for SIM based connectivity (*customer to use their own SIM/data cards)

- Our LTE Gateway comes in handy in case there is no access to WiFi or Ethernet or if you have a WiFi blind spot.
- Data from SIM card can be used to connect and push the data to the cloud

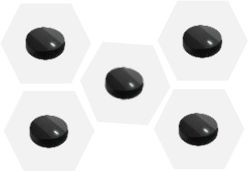
Cost Effective Solution

- One Gateway can support a mesh network of up to 100 COIN units.
- Multiple Gateways could be used to create a large network and all such Gateways can be linked to a central cloud.

Smart

- Monitor, manage, and analyze the Gateway and COINs from our user-friendly web panel.

How it works



1. COIN
Our COINs form point to point mesh network of tiny sensor nodes.

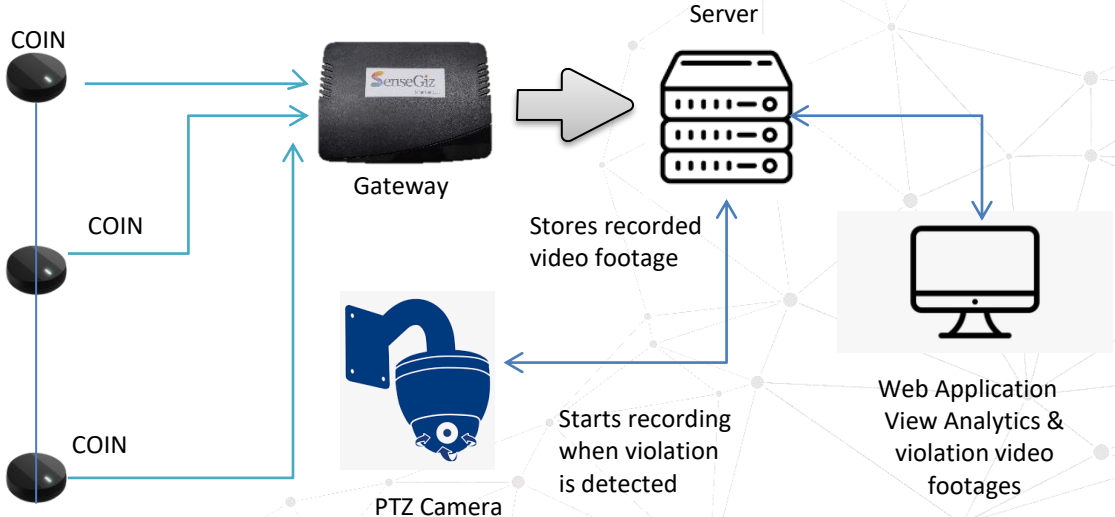
2. GATEWAY (Wi-Fi / Ethernet / LTE)
Gateway assigned to these coins collects data and relays it to the cloud over internet.

3. CLOUD SERVER
Our powerful cloud is API enabled for custom deployment.

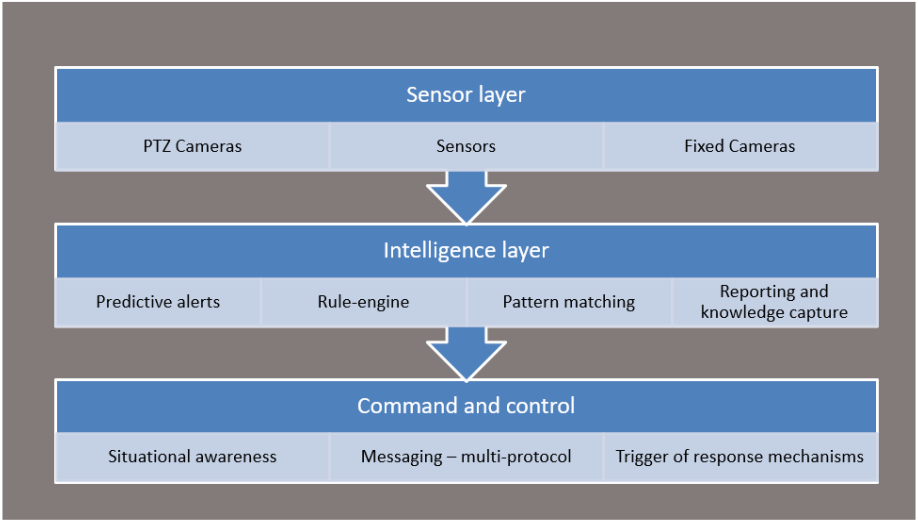
5. ANALYTICS
Achieve desired business outcomes by using the right tools and techniques, at the right time.

4. WEB PANEL
Our software crunches the numbers, displays information and lets user control the device parameters.

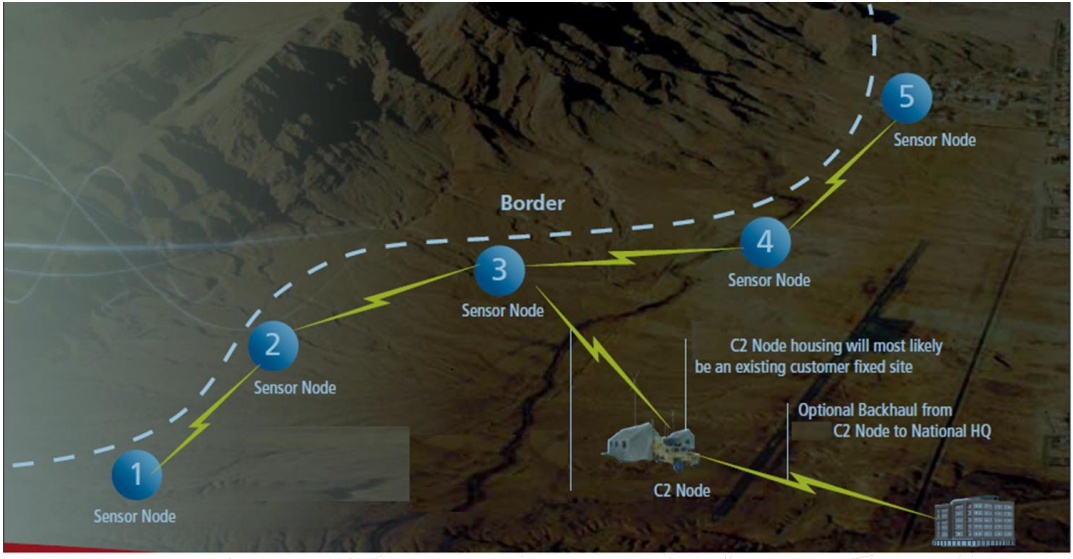
Integration with existing CCTV cameras



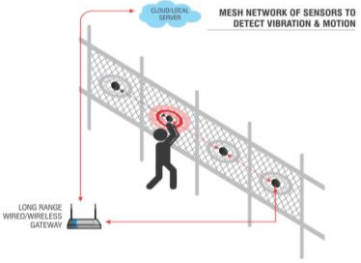
System Architecture Overview

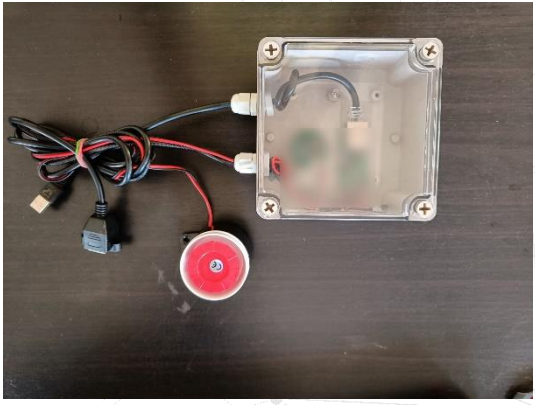


System Deployment Overview



Siren Alerts





Intrusions trigger an instant loud Siren Alert- which can be installed closer or far away from the fence.

Smart AI Video Analytics

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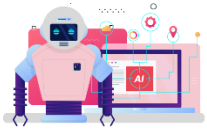
Product



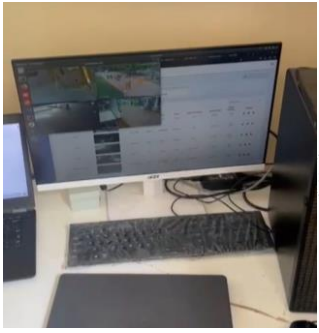
AI SERVER (ON-PREM)

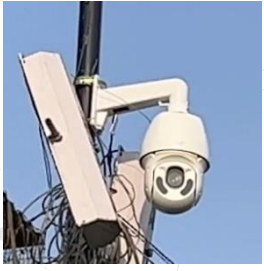
Person Detected by AI in Control Room

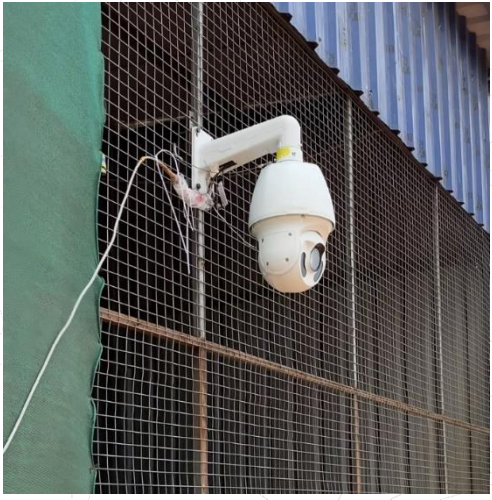
Trigger System

- Hooter System
- Relay System
- Voice System

PTZ Camera Photos

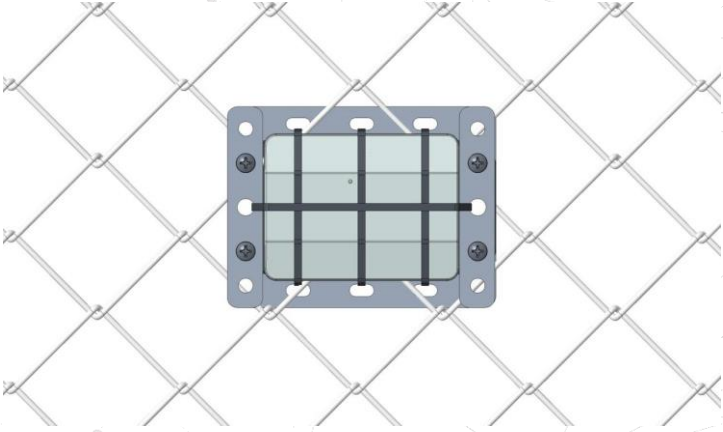




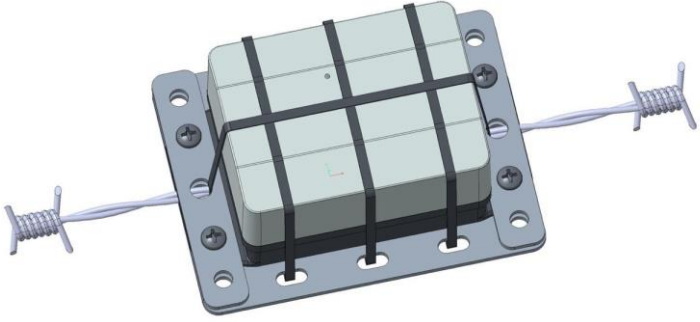


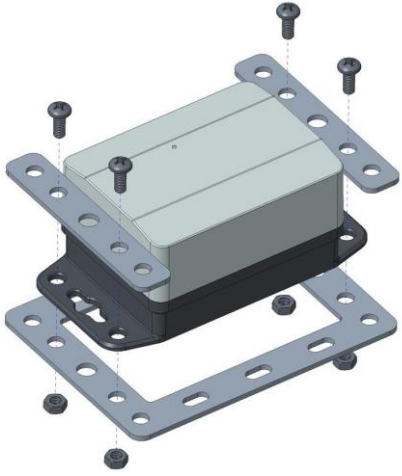
PTZ Cameras in Action in diverse environments

COIN sensor installation



COIN sensor installation





AI based people Detection on Desktop

Security solutions for fencing / perimeters

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Benefits

- COIN can be installed throughout the fence at a distance of 30 feet apart.
- COINs can detect vibration and angular movements on the fence
- Get real time alerts on unauthorized entry and events.
- AI based people detection at longer distances from the cameras with sirens.
- Our Machine Learning model can recognize & distinguish human activities.
- Real time data analysis can distinguish between humans (walking, running, and other objects like vehicles, animals etc.
- Integrated with pre-existing CCTVs used to cover the entire perimeter length.

Type of Deployments

We can provide the following types of software deployments:

Access to our Cloud Server, Platform, and Dashboard: In this option, the customer gets access to our Cloud Server where the data will be stored and processed, and access to Dashboard from where the sensors can be controlled and all activities can be tracked.
This Option is ideal for Small and Medium Enterprise Customers.

Our Software platform installed on your cloud: In this option, the customer's existing cloud server is used and no data is stored elsewhere. Our basic platform is installed on the customer's server and either our dashboard or any other dashboard can be used by customers.
This Option is ideal for Large enterprise customers who already have their own cloud server in place..

Military application : For military applications, we have an option to host everything on local server.

Why Us?

- COIN is small in size, economical and with a long battery life. Also comes with the ability to control/change parameters of each sensor through the server.
- Multiple sensors built into the product for angular movements, vibration, humidity and temperature sensing.
- Advanced AI & Machine learning algorithms for use in diverse scenarios.
- Complete Indian ownership of entire Intellectual Property with skilled local support.
- Workflow & interface can be customized as per requirements.
- Easy to integrate additional external systems.

Case Study : Security against multiple Intrusion

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CHALLENGE

A government organization wanted real time data on trespassing and intrusion activity in an area where no person was allowed. The entire perimeter was to be covered against such activities and hence the solution was required to be very cost effective and efficient.

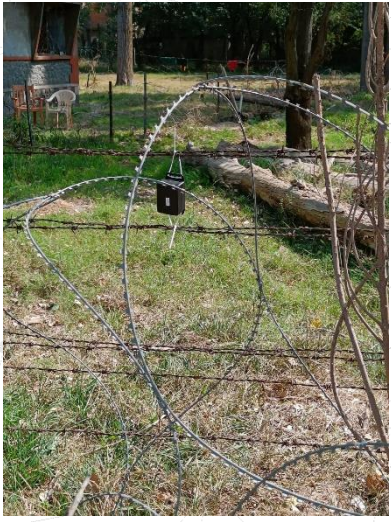
The organization also demanded no false alarms due to rains, winds etc.

SOLUTION

The perimeter was covered with our Coins. Sensors in the coin would detect intrusion activity and send real time notification to its users, which helped them take appropriate action.

BENEFITS

Wireless connectivity and wireless streaming. Hence a perfect fit in such cases. Due to its small size, the coin is not visible to the intruders.



Achievements

2014

Most promising IoT start up award by IESA

2015

NASSCOM – Iconic Startup of the year

2016

NASSCOM's select delegation to CEATEC, Japan

2017

National Entrepreneurship Award by MoS Development and Entrepreneurship

May 2018

Top Start up Award at Cisco Launchpad Cohort 3.

June 2018

Best MSME Award by MoS Defense

2019

Top Startup award by Maruti Suzuki Cohort 1

2020

Winners of Samadhan COVID Challenge by MHRD

2021

Winners of BCIC Emerging Stars Award. Bangalore Chamber of Industry and Commerce

2022

Winner of 'Enterprise of the year, Technology' Award

2022

Winner of 'Spirit of Manufacturing' award.

Leading Customers across the globe

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Mahindra
Asset & people Tracking

MARUTI SUZUKI
Vehicle Tracking within a service center

ZENER
Condition Monitoring and Asset Tracking

ITC Limited
Condition Monitoring and Asset Tracking

MilSafe
GLOBAL SECURITY SOLUTIONS
Perimeter Security

SiteWatch Safety
....our mission is in our name
Condition Monitoring

DUPONT
Tracking Solutions

TESSOL
Innovate. Preserve. Grow

ador WELDING
Predictive Maintenance

Mahindra LOGISTICS

JUBILANT FOODWORKS

UltraTech CEMENT
The Engineer's Choice

HYUNDAI

IndyGo

DAIMLER

FAQs

1. **Can the product be installed on barbed wire or chain link type of fence with concrete footing?**
Ans: Yes, our product can be installed on your existing barbed wire or chain link type of fence or even a wall.

2. On options for cloud, we prefer to use our own cloud to process all the data. Can this be done with your product?
Ans: Yes, our base software can be installed on your cloud. Basically, it will be our platform on your cloud server. We will be sharing the API's for the same and our team can guide you on the entire process.

3. Are the hardware manufactured in your own factory and all software developed by your own resources?
Ans: Yes. All the hardware and software is designed and developed internally by our own team in India. We do have patents for some of our products as well.

FAQs

4. Are the sensors installed on the fencing safe from any theft or vandalism? If one sensor is missing, can the system detect the missing sensor?
Ans: If someone is trying to destroy or damage the sensor, our system has the capability to pick up the signals and alert immediately to the admin or user so that appropriate action can be taken.

5. How does the system differentiate between strong wind and public intruders when the sensor captures the movement/vibration?
Ans: We have developed machine learning models that can further efficiently differentiate between strong wind and intruders.