



Set no limits...

COMMAND & CONTROL System using Sensors, PTZ  
Cameras & AI.

**Our Entire PRODUCT is designed and manufactured in India**

## 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.

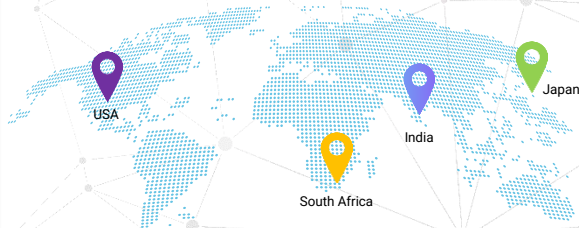
## Vision:

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



# Deployment example



# Integration with existing CCTV cameras

ANY  
SENSORS



ANY  
SENSORS



Gateway



PTZ Camera

Server



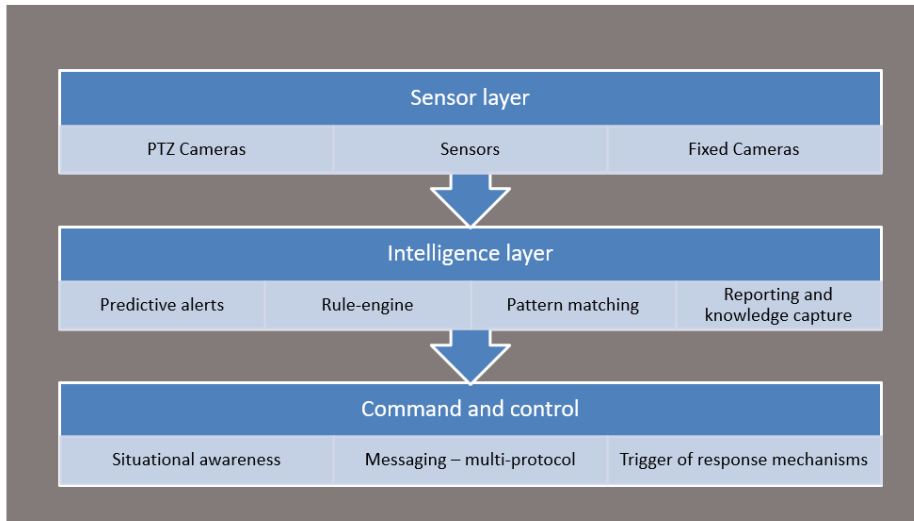
Stores recorded  
video footage

Starts recording  
when violation  
is detected

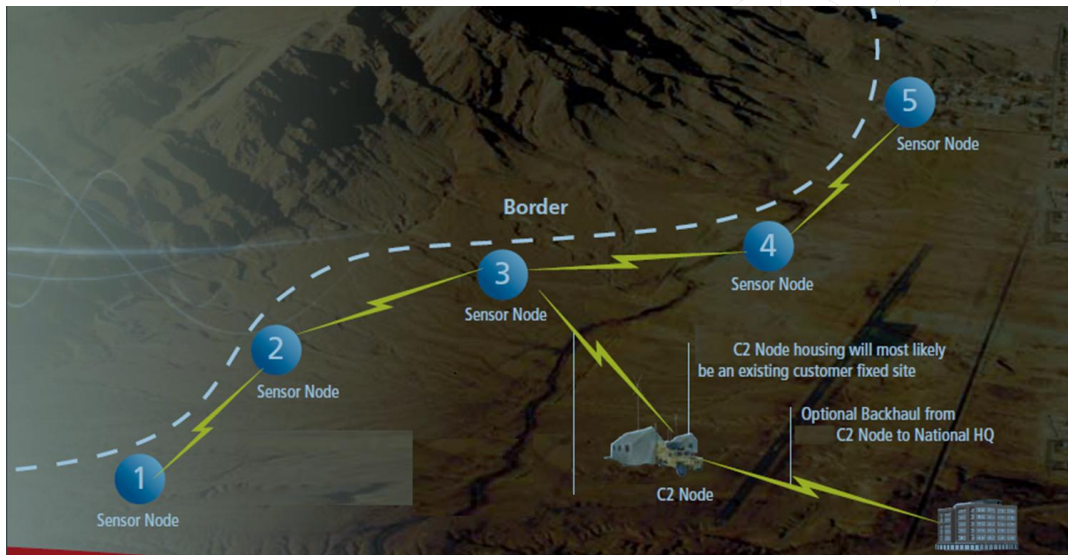


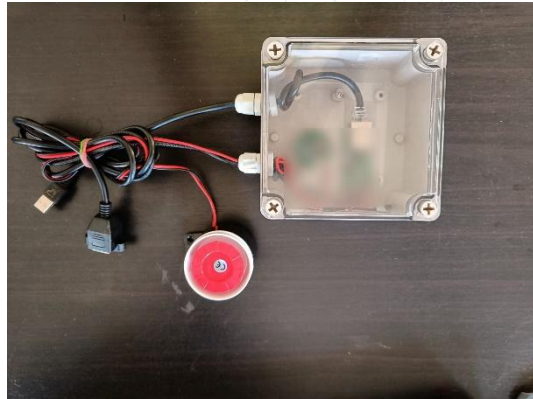
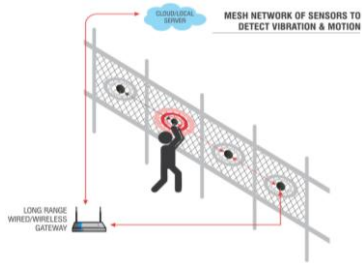
Web Application  
View Analytics &  
violation video  
footages

# System Architecture Overview



# System Deployment Overview





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

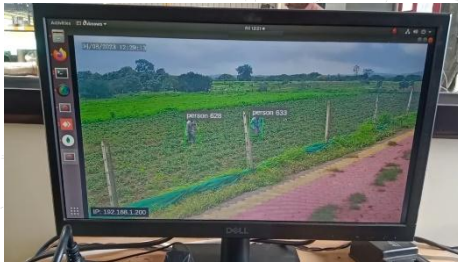


## Product



AI SERVER (ON-  
PREM)

Person Detected by AI in Control Room

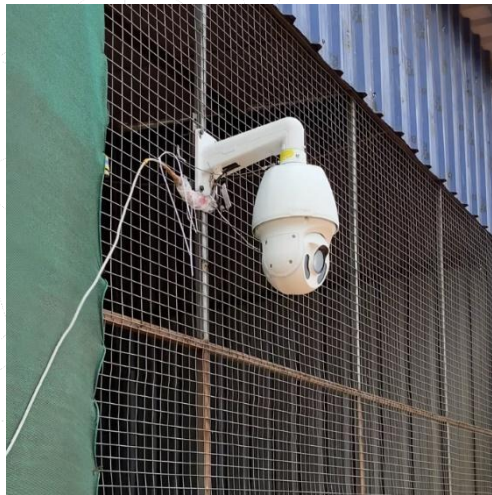
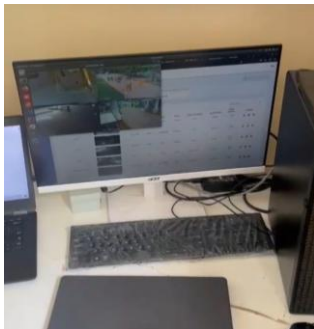


Trigger System

Hooter  
System

Relay  
System

Voice  
System



PTZ Cameras in Action in  
diverse environments

# AI based people Detection on Desktop



# Server and Software in C2 Center

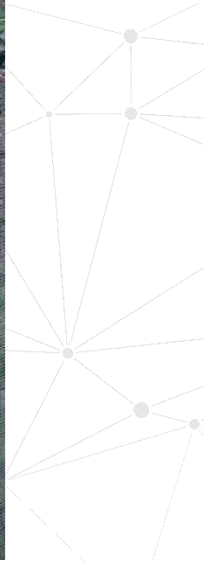


# People detected by AI system

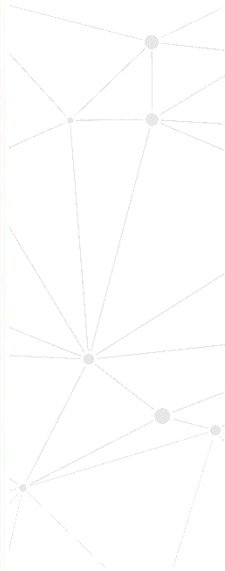




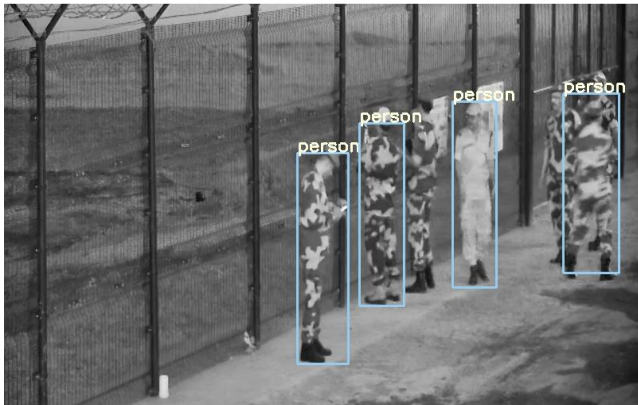
# Specific animals can be filtered in or filtered out



# Long range detection of BSF Sentry



# Night Detection using AI







- Our Software platform can analyze the captured aerial imagery in real-time, utilizing AI algorithms to detect and identify specific vehicle/human presence within the imagery data feed.
- Targets and scenarios can be custom selected by operators depending on operating environments and threat perceptions.

# Multiple thermal cameras processed at once



- Advanced AI algorithms to analyze multiple Thermal Cameras at once for tracking humans.
- Algorithms are trained to differentiate between human heat signatures and other sources of heat, eliminating false positives upto 400m away.

**Areas of Interest** – Floor, location, building, Border - Perimeter fence, Security etc.

**Hotspots** – Where most common incidents occur, common areas of disruptive behaviour. Increase security presence.


**Incident Trends** – What types of incidents, things to look out for, gun, knife, mugging, shop lifting etc.


**Most active cameras** - What areas require extra surveillance based on usage, where to invest in future upgrades.



# PTZ on BFL pole

## IP Camera Web Login

 Username

 Password

Language:

Login

PTZ



Speed(1-10):

 Settings

 Zoom 

 Focus 

 Iris 

Preset

 Call

 Add  Del

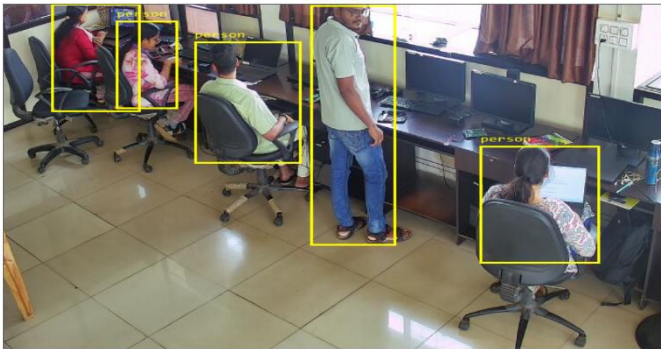
# Human Detection via AI

Human Detection



## Human Detection

PTZ Camera



☒ PTZ Camera

☐ Human detection

☒ Save Videos

☒ Save Images

Start  Set Duration  
Browse Test Move

PTZ Camera

5/31/2024 11:08:49	Human Detected(5)
5/31/2024 11:08:50	Human Detected(5)
5/31/2024 11:08:50	Human Detected(5)
5/31/2024 11:08:51	Human Detected(5)
5/31/2024 11:08:51	Human Detected(5)
5/31/2024 11:08:52	Human Detected(4)
5/31/2024 11:08:52	Human Detected(5)
5/31/2024 11:08:52	Human Detected(5)
5/31/2024 11:08:53	Human Detected(5)

Coin\_Id

5/31/2024 11:06:41	CoinId 15 Received
5/31/2024 11:06:44	CoinId 11 Received
5/31/2024 11:07:29	CoinId 17 Received
5/31/2024 11:07:31	CoinId 19 Received
5/31/2024 11:07:33	CoinId 20 Received
5/31/2024 11:07:35	CoinId 18 Received
5/31/2024 11:07:39	CoinId 16 Received
5/31/2024 11:08:01	CoinId 15 Received



Search



11:08

5/31/2024

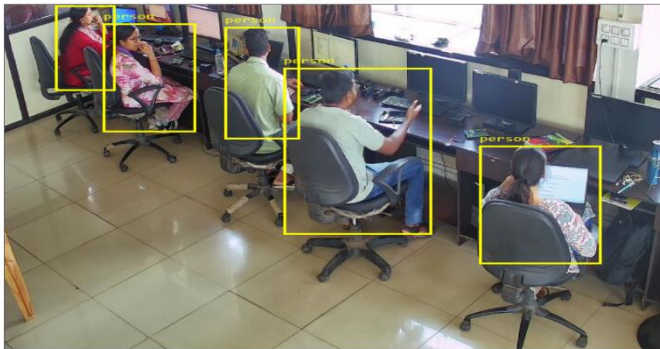
# Human Detection via AI

Human Detection



## Human Detection

PTZ Camera



☒ PTZ Camera

☐ Human detection

☒ Save Videos

☒ Save Images

Start

2

Set Duration

Browse

Test

Move

PTZ Camera

5/31/2024 11:09:38	Human Detected(4)
5/31/2024 11:09:39	Human Detected(4)
5/31/2024 11:09:39	Human Detected(4)
5/31/2024 11:09:40	Human Detected(4)
5/31/2024 11:09:40	Human Detected(4)
5/31/2024 11:09:41	Human Detected(5)
5/31/2024 11:09:41	Human Detected(5)
5/31/2024 11:09:41	Human Detected(5)
5/31/2024 11:09:42	Human Detected(5)

Coin Id

5/31/2024 11:06:41	CoinId 15 Received
5/31/2024 11:06:44	CoinId 11 Received
5/31/2024 11:07:29	CoinId 17 Received
5/31/2024 11:07:31	CoinId 19 Received
5/31/2024 11:07:33	CoinId 20 Received
5/31/2024 11:07:35	CoinId 18 Received
5/31/2024 11:07:39	CoinId 16 Received
5/31/2024 11:08:01	CoinId 15 Received

# Human Detection via AI



## Human Detection

PTZ Camera

PTZ Camera

5/31/2024 11:10:39 Human Detected(1)  
5/31/2024 11:10:39 Human Detected(1)  
5/31/2024 11:10:39 Human Detected(1)  
5/31/2024 11:10:40 Human Detected(1)  
5/31/2024 11:10:40 Human Detected(1)  
5/31/2024 11:10:41 Human Detected(1)  
5/31/2024 11:10:41 Human Detected(1)  
5/31/2024 11:10:41 Human Detected(1)  
5/31/2024 11:10:42 Human Detected(1)

Coin\_Id

5/31/2024 11:06:44 CoinId 11 Received  
5/31/2024 11:07:29 CoinId 17 Received  
5/31/2024 11:07:31 CoinId 19 Received  
5/31/2024 11:07:33 CoinId 20 Received  
5/31/2024 11:07:35 CoinId 18 Received  
5/31/2024 11:07:39 CoinId 16 Received  
5/31/2024 11:08:01 CoinId 15 Received  
5/31/2024 11:10:22 CoinId 17 Received

☒ PTZ Camera

☐ Human detection

☒ Save Videos

☒ Save Images



Search



11:10  
5/31/2024



## Human Detection

PTZ Camera



PTZ Camera

Human detection

Save Videos

Save Images

Start  Set Duration  
Browse Test Move

PTZ Camera

5/31/2024 11:11:48	Human Detected(1)
5/31/2024 11:11:48	Human Detected(1)
5/31/2024 11:11:48	Human Detected(1)
5/31/2024 11:11:49	Human Detected(1)
5/31/2024 11:11:49	Human Detected(1)
5/31/2024 11:11:50	Human Detected(1)
5/31/2024 11:11:50	Human Detected(1)
5/31/2024 11:11:50	Human Detected(1)
5/31/2024 11:11:51	Human Detected(1)

Coin Id

5/31/2024 11:06:44	CoinId 11 Received
5/31/2024 11:07:29	CoinId 17 Received
5/31/2024 11:07:31	CoinId 19 Received
5/31/2024 11:07:33	CoinId 20 Received
5/31/2024 11:07:35	CoinId 18 Received
5/31/2024 11:07:39	CoinId 16 Received
5/31/2024 11:08:01	CoinId 15 Received
5/31/2024 11:10:22	CoinId 17 Received

- Get perimeter alerts once the intrusion is happening, all the cameras related to the zone will be triggered automatically on the camera view screen and operator will be able to playback with the click of a button.




# Manage Operations on a Geospatial map



[Home](#) / [App](#) / [Nms](#) / [Map](#)

**Suraksha : MAP**

# Operational Area



admin



**Bhishma**

Lat Long : 28.6923, 77.3475

Blood Group : ab-

Medical Condition : Allergy to cough syrups

Home Address : 17 horse, Pune

Office Address :

Primary Contact : C.O 8956765235

Secondary Contact :

Call by marker

NORTH ZONE

SOUTH ZONE

NORTH ZONE

SOUTH ZONE

NORTH ZONE

SOUTH ZONE

NORTH ZONE

SOUTH ZONE

Navigate to Home Location

Anchor to Current Location as Home

60777138CC97 
Last updated: 22-03-2024 11:10:08
607771C6723A 
Last updated: 31-05-2024 16:32:18
60777138C94C 
Last updated: 20-03-2024 11:00:28
6077714A88CF 
Last updated: 22-05-2024 10:47:13
60777138C0EE 
Last updated: 21-11-2023 10:25:33
6077714A8BA3 
Last updated: 18-09-2023 10:39:07
6077714A8561 
Last updated: 16-03-2024 13:24:41




## Coins

### Coins

None selected 

Apply Filter

For details on how to set the thresholds, please refer the Guide section

Accelerometer (g)	
Gyroscope (DPS)	
Temperature (Celsius)	

### Recent updates:

- Coin 31-Accelerometer Low-Value-1 2-Updated on-31-05-2024 16:32:40
- Coin 31-Accelerometer Low-Value-1-Updated on-31-05-2024 16:32:26
- Coin 33-Accelerometer Low-Value-1-Updated on-31-05-2024 16:33:12
- Coin 33-Gyroscope Low-Value-220-Updated on-31-05-2024 16:33:02
- Coin 33-Accelerometer Low-Value-1-Updated on-31-05-2024 16:32:59

Devices Status 

60777138CC97  
Last updated: 22-03-2024 11:10:08

607771C6723A  
Last updated: 31-05-2024 16:33:17

60777138C94C  
Last updated: 20-03-2024 11:00:28

6077714A88CF  
Last updated: 22-05-2024 10:47:13

60777138C0EE  
Last updated: 21-11-2023 10:25:33

6077714A8BA3  
Last updated: 18-09-2023 10:39:07

6077714A8561  
Last updated: 16-03-2024 13:24:41

## Coins

### Coins

None selected

Apply Filter

For details on how to set the thresholds, please refer the Guide section

Accelerometer (g)							
Sl. No	Nick Name	Location	Threshold	Value	Get Current Value	Last Updated	Set Threshold
1	Coin 33		low	1	GET	31-05-2024 16:34:53	1 SET
2	Coin 31		low	1.2	GET	31-05-2024 16:32:40	1 SET
3	Coin 31		high	4.2	GET	31-05-2024 16:30:41	3.375 SET
4	Coin 32		low	1	GET	31-05-2024 16:19:40	1 SET
5	Coin 36		low	1	GET	31-05-2024 13:29:29	1 SET
6	Coin 34		low	1	GET		
7	Coin 35		low	1.1	GET		
8	Coin 39		low	0.9	GET		

#### Recent updates:

Coin 33-Accelerometer Low-Value-1-Updated on-31-05-2024 16:34:53  
Coin 31-Accelerometer Low-Value-1.2-Updated on-31-05-2024 16:32:40  
Coin 31-Accelerometer Low-Value-1-Updated on-31-05-2024 16:32:26  
Coin 33-Accelerometer Low-Value-1-Updated on-31-05-2024 16:33:12  
Coin 33-Gyroscope Low-Value-220-Updated on-31-05-2024 16:33:02

## Add Emails/Phone Numbers

(Add email id's/phone no's to get notifications)

- NOTE**
- Please note that the notification emails might go into your Spam folder.
  - Please make sure that you have selected the correct country code to add the Mobile Number.

Email ID

Mobile Number







### Emails List

Sl. No	Email Id	Edit	Delete
No Data Found			







### Mobile Numbers List

Sl. No	Mobile Number	Edit	Delete
No Data Found			







## Camera On/Off

SI No	Email Id	Phone	Date	Sound Alert	Coin Offline Time	Camera IP	Camera On/Off	Camera Recording Time	Edit	Update Email	Delete
1	info@sensegiz.com		21-11-2022 15:18:08+05:30	<input type="checkbox"/>	<input type="text" value="1"/> Submit	<input type="text" value="http://localhost:8000/signalz"/> Submit	<input checked="" type="checkbox"/>	<input type="text" value="6"/> Submit			
2	roshan@sensegiz.com	7353207924	17-09-2022 17:35:32+05:30	<input type="checkbox"/>	<input type="text" value="245"/> Submit	<input type="text" value="http://localhost:8000/signalz"/> Submit	<input type="checkbox"/>	<input type="text" value="8"/> Submit			

## Camera Recording Time

SI No	Email Id	Phone	Date	Sound Alert	Coin Offline Time	Camera IP	Camera On/Off	Camera Recording Time	Edit	Update Email	Delete
1	info@sensegiz.com		21-11-2022 15:18:08+05:30	<input type="checkbox"/>	<input type="text" value="1"/> Submit	<input type="text" value="http://localhost:8000/signalz"/> Submit	<input type="checkbox"/>	<input type="text" value="6"/> Submit			
2	roshan@sensegiz.com	7353207924	17-09-2022 17:35:32+05:30	<input type="checkbox"/>	<input type="text" value="245"/> Submit	<input type="text" value="http://localhost:8000/signalz"/> Submit	<input type="checkbox"/>	<input type="text" value="8"/> Submit			

Siren can be turned On/Off as per requirement

Sl No	Email Id	Phone	Date	Sound Alert	Coin Offline Time	Camera IP	Camera On/Off	Camera Recording Time	Edit	Update Email	Delete
1	info@sensegiz.com		21-11-2022 15:18:08+05:30	<input checked="" type="checkbox"/>	<input type="text" value="1"/> <input type="button" value="Submit"/>	<input type="text" value="http://localhost:8000/signal"/> <input type="button" value="Submit"/>	<input type="checkbox"/>	<input type="text" value="6"/> <input type="button" value="Submit"/>			
2	roshan@sensegiz.com	7353207924	17-09-2022 17:35:32+05:30	<input type="checkbox"/>	<input type="text" value="245"/> <input type="button" value="Submit"/>	<input type="text" value="http://localhost:8000/signal"/> <input type="button" value="Submit"/>	<input type="checkbox"/>	<input type="text" value="8"/> <input type="button" value="Submit"/>			

## Change Gateway Mesh Id



Gateway ID:

60777138D0F6

Mesh ID:

11|



Close

Update

6077714A88CF

1804ED5D5DAD

## Analytics

Click any device to view device level analytics

COIN 31

COIN 32

COIN 33

COIN 34

COIN 35

COIN 36

COIN 37

COIN 38

COIN 39

COIN 40

Gateway: 1804ED5D5DAD

Devices Status



# Sensor Dashboard

6077714A88CF

1804ED5D5DAD

ACCELEROMETER

GYROSCOPE

TEMPERATURE

HUMIDITY

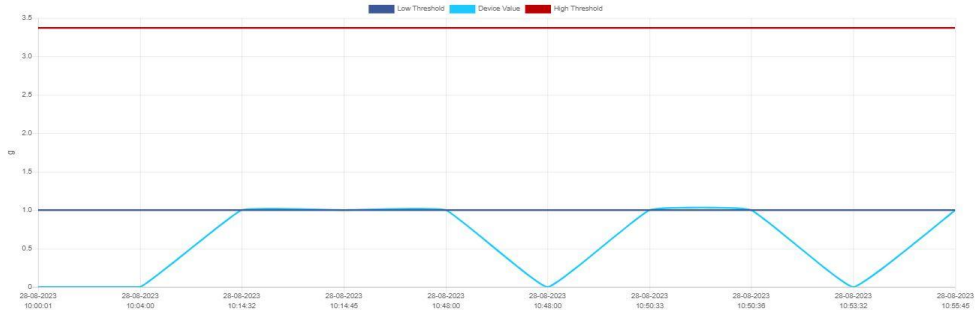
STREAM

ACCELEROMETER TYPES

SPECTRUM TYPES

Gateway: 1804ED5D5DAD / Coin 32 / Accelerometer

Filters: Select Both Thresholds Low High



## Report



Below are the metric details of the coin selected :

Gateway ID : 60777138C94C

Device ID : 28

Nick Name : Coin 28

Metric : Accelerometer (g)

Below table shows the values received today (2024-05-30 18:30:00) :

No. of times value crossed the low threshold :104

No. of times value crossed the high threshold :0

Updated On (date)	Device Value	Low Threshold	High Threshold
31-05-2024 10:00:02	1	1	3.375
31-05-2024 09:59:52	1.6	1	3.375
31-05-2024 09:49:40	1	2	3.375
31-05-2024 09:49:36	1	2	3.375
31-05-2024 09:49:32	1	2	3.375
31-05-2024 09:49:27	1	2	3.375
31-05-2024 09:49:08	1	2	3.375
31-05-2024 09:48:15	1	1	3.375

## Report



Below are the metric details of the coin selected :

Gateway ID : 60777138C94C

Device ID : 28

Nick Name : Coin 28

Metric : Gyroscope (DPS)

Below table shows the values received today (2024-05-30 18:30:00) :

No. of times value crossed the low threshold :9

No. of times value crossed the high threshold :1

Updated On (date)	Device Value	Low Threshold	High Threshold
31-05-2024 09:48:58	300	10	300
31-05-2024 09:48:55	220	10	300
31-05-2024 09:48:47	200	10	300
31-05-2024 09:48:38	300	10	300
31-05-2024 09:48:30	210	10	300
31-05-2024 09:46:05	320	10	300
31-05-2024 09:42:39	200	10	300
31-05-2024 09:42:28	300	10	300
31-05-2024 09:42:25	260	10	300

60777138CC97 ●

607771C6723A ●

60777138C94C ●

6077714A88CF ●

60777138C0EE ●

6077714A8BA3 ●

6077714A8561 ●

## Violation Report

Operator Name:

Enter Operator Name:

SAVE

Gateway: 607771C6723A

Show 10 ▾ entries

Search:

vr_id	Sensor ID	Location	Operator	Action Took	Date Time
121	0025	Coin 37	nihal	<input type="text" value="killed"/> <input type="button" value="Submit"/>	2024-03-12 17:02:21+05:30
122	0025	Coin 37	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:21+05:30
123	0025	Coin 37	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:21+05:30
124	0025	Coin 37	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:21+05:30
125	0025	Coin 37	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:21+05:30
126	0026	Coin 38	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:38+05:30
127	001F	Coin 31	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:38+05:30
128	0026	Coin 38	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:38+05:30
129	0026	Coin 38	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:38+05:30
130	0026	Coin 38	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:38+05:30

60777138CC97 ●

607771C6723A ●

60777138C94C ●

6077714A88CF ●

60777138C0EE ●

6077714A8BA3 ●

6077714A8561 ●

## Violation Report

Operator Name:

SAVE

Gateway: 607771C6723A

Show 10 ▾ entries

Search: 

The operator can add the actions taken for each specific violation report.



vr_id	Sensor ID	Location	Operator	Action Took	Date Time
121	0025	Coin 37	nihal	<input type="text" value="killed"/> <input type="button" value="Submit"/>	2024-03-12 17:02:21+05:30
122	0025	Coin 37	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:21+05:30
123	0025	Coin 37	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:21+05:30
124	0025	Coin 37	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:21+05:30
125	0025	Coin 37	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:21+05:30
126	0026	Coin 38	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:38+05:30
127	001F	Coin 31	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:38+05:30
128	0026	Coin 38	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:38+05:30
129	0026	Coin 38	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:38+05:30
130	0026	Coin 38	-	<input type="text" value="null"/> <input type="button" value="Submit"/>	2024-03-12 17:02:38+05:30

6077714A88CF

1804ED5D5DAD

## Gateway and Coin Info

Gateway: 1804ED5D5DAD



Gateway BLE Mac Address: 1804ED5D5DAD

Registration Date: 21-11-2022 15:19:29

Blacklisted: N

Number Of Coins registered to this Gateway: 10

### Color Code Info.

Device Active

Device Inactive

Battery Full

Battery Medium

Battery Low

	Last Seen: 1 hours ago		Coin 31		Last Seen: 1 hours ago		Coin 32
	Last Seen: 1 hours ago		Coin 33		Last Seen: 1 hours ago		Coin 34
	Last Seen: 1 hours ago		Coin 35		Last Seen: 1 hours ago		Coin 36

6077713BD08C

6077714A88CF

1804ED5D5DAE

## Report Generation:-

Based on Particular Gateway, Multiple COINs and Multiple Sensor Types - 6077714A88CF

Select COINs: \*

Select Multiple COINs

Select Sensor Type: \*

Accelerometer

Gyroscope

Temperature

Humidity

Temperature Stream

Humidity Stream

Accelerometer Stream

Report Duration/Time: \*

24 Hours

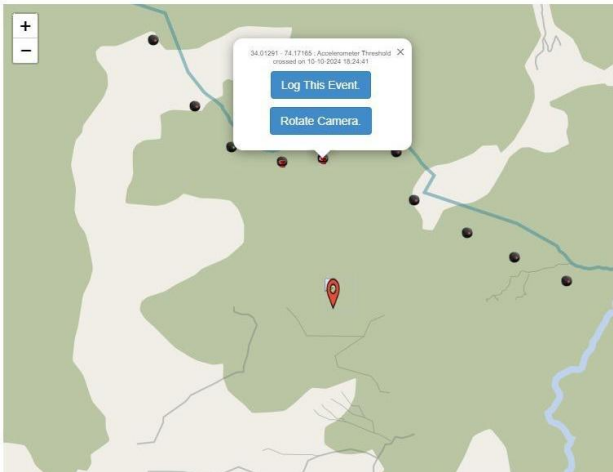
Export Format Type: \*

CSV Format

Download

Devices Status

# GIS Map Center with live alerts



## Map Studio Monitor

[Click here for live Updates](#)

Connected to the gateway

RED icons on map indicate Alerts from sensor at particular geographical location with option for logging all events

# Software Details

- The Software consists of Video Analytics Software with AI, GUI and Control Software all in 1 package, supporting multi tasking as well.
- Software is designed to be scalable for control of any number of sensors of all types like PTZ, Fixed cameras, UGS sensors, Radar, UAV feed, HHTI, DIDS, PIDS, ESPF and UVDS sensors etc.
- System can be deployed at Borders or Bases in diverse environments. Any additional new sensors can be easily integrated via APIs/SDK's at short notice
- Event logging, playback and GIS features are included. User interface is easy to understand & Training is provided.
- Our System is approved by Indian Army also.



# Achievements



2014

Most promising IoT start up award by IESA



NASSCOM – Iconic Startup of the year



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



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



Winner of 'Enterprise of the year, Technology' Award



Winner of 'Spirit of Manufacturing' award.

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