

Smart | Cost-effective | Highly-scalable

Accurate Air Quality Monitoring and Advanced Data Analytics

About Company

VISION : Keeping Environment at the core, we envision to empower various industries with highly scalable data-driven solutions for better decision making.

MISSION : Implement our Environmental IoT and Environmental Ai solutions in 50 Major cities of the world by 2022.

Oizom is a Smart Air Quality Monitoring Solutions company offering data-driven environmental solutions for better decision making. Using our sensor-based hardware, we monitor various environmental parameters related to air quality, noise, odour, weather, radiation etc. Our data analytics platform derives various actionable insights for authorities, communities and industries. Through smart environmental solutions and data-science, Oizom is striving to play an important role in future cities. Since its inception in 2015, Oizom is primarily focused on environmental monitoring technology and solutions. In a short span of 5 years, Oizom solutions are live at 700+ locations monitoring environmental health of more that 15Mn people everyday. Oizom solutions are actively monitoring the environmental conditions of 6 Smart Cities in India. The solutions are live in 25 global cities like Mumbai, Delhi, London, Barcelona, Houston, Melbourne, Istanbul and many more. Through an ecosystem of network-partners, Oizom has a strong presence in 47+ countries.

Envizom™ Platform



Customizable Dashboard

Customer can make necessary changes as per requirement and use-case.

Data Analytics

Realtime and Historical data analysis with 3 different approaches.

Smart Notifications

Email, SMS and Push-notifications when environmental condition crosses a threshold.

Automated Reports

System generated scheduled reports on daily, weekly, monthly basis (as per industry standards).

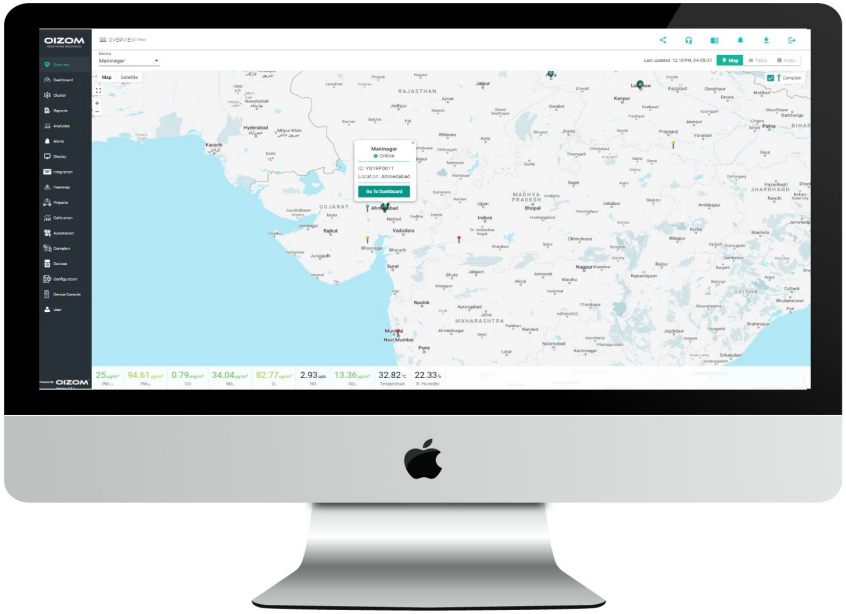
Environmental Widget

Environmental data-widget to be embedded in 3rd party web pages.

Pollution Heatmap

Street-by-street pollution heatmap of the city to analyze pollution at a granular level.

Overview



Bird's eye view
All the devices can be viewed on the map and identified through pins

Geo mapping
Identification of the device with unique ID along with quick information like device name, location & image

Real time data view
Latest data point shown at the bottom for the selected device

Tabular format
Data represented in table view for specific date range and time intervals

Color coded data
Colour coded as per the threshold values specified for calculating AQI

Index view
Comparing historical data of multiple devices for specific date and time

Complimentary

Custom Dashboard



Widget view
Multiple graphical views with charts and bars for better data representation

Table view
Viewing data in Tabular format for specific date range and time interval

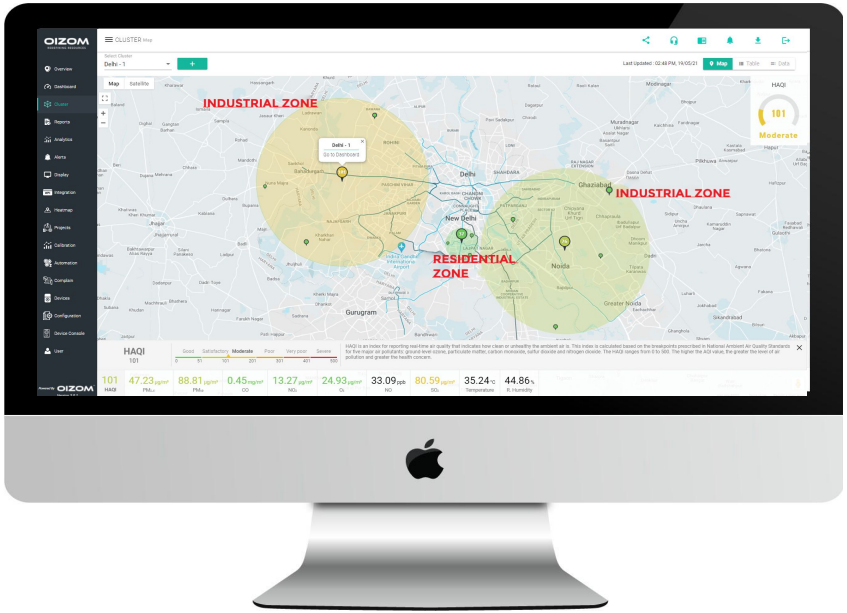
Multiple Time Intervals
Data representation in multiple time intervals of 1 hour, 8 hours and 24 hours

Downloads
Data for a selected date range can be downloaded in CSV format

Color coded data
Colour coded as per the threshold values specified for calculating AQI

Complimentary

Cluster Module



Area specific Air Quality
Cluster is useful when air quality of particular area , region, city , campus , zone etc needs to be seen

Grouping
Multiple devices can be grouped together to get the overall environmental status of a specific region

Customizable clusters
2 ways to add device devices, by drawing on the map or by selecting

Multiple clusters
Creating multiple clusters specific to its area (industrial, residential, etc.)

Downloads
Data for a selected date range can be downloaded in CSV format

Paid

Scheduled Reports



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Automated Reports
Reports emailed to subscribers in print ready PDF format
.

Quick Reports
Report of specific date, week or month can be downloaded or sent to an email ID instantly

Consolidated Reports
Inclusion of charts , tables and analysis for all the parameters

Multi-type selection
Daily , Monthly and Weekly Automated reports to multiple subscribers

Advanced Analytics



Analytics
Shows comprehensive analysis of data with option to select from 3 different methods.

Parameter comparison
Comparing multiple parameters of single device (Eg. PM_{10} and Humidity)

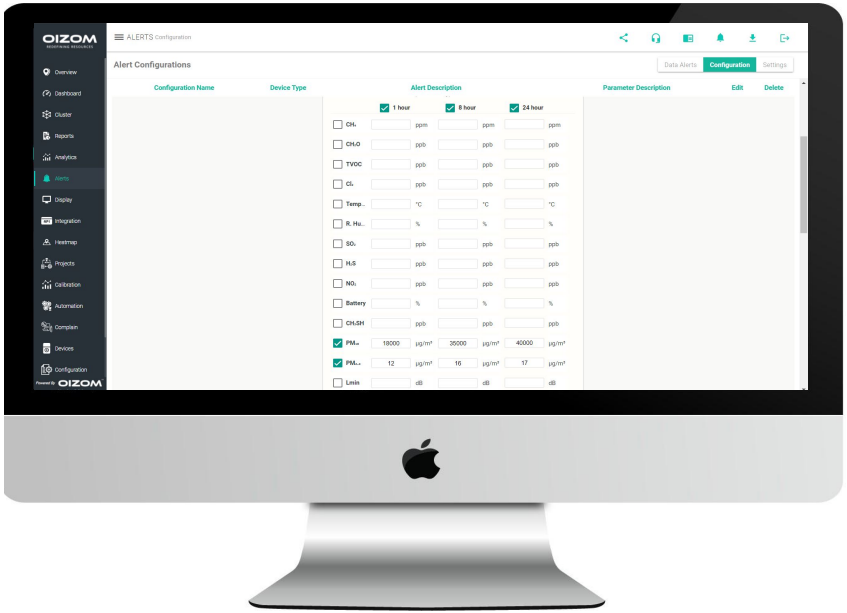
Device Comparison
Comparing single parameter of upto 10 devices (E.g. Variation of SO_2 in all devices)

Pollution rose
Creating a pollution rose chart for identifying pollution load at a specific location

Multiple Analytics
Numerous analytics creation as per requirement.

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Data Alerts



Alerts
Provides alerts to users based on condition. If the value goes beyond a threshold point alerts will be triggered.

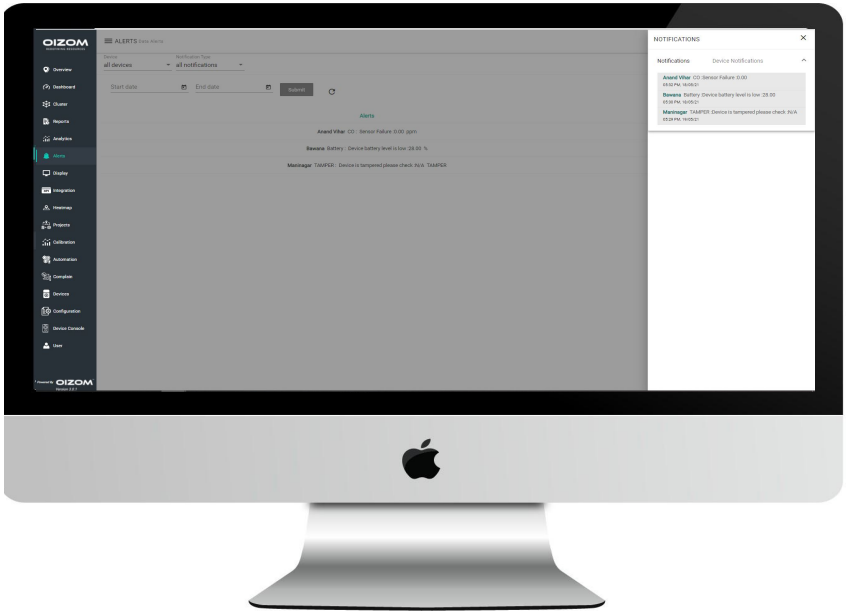
Data Alerts
Alerts in the form of SMS , email and application notifications.

Alert Configuration
Multiple alert configurations assigned to multiple devices

Time Interval
Alerts can be triggered every 1 , 8 or 24 hour as per input

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Device Notifications



Notifications
3 types of device notifications are triggered from Oizom devices

Battery Status
Notification from device when the battery status goes down to zero

Sensor notifications
Notification is triggered when a sensor in the device fails , it generates Sensor failure notification

Tamper notifications
Whenever the device is tampered in any form then device is tampered notifications are generated

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Data Comparison Display



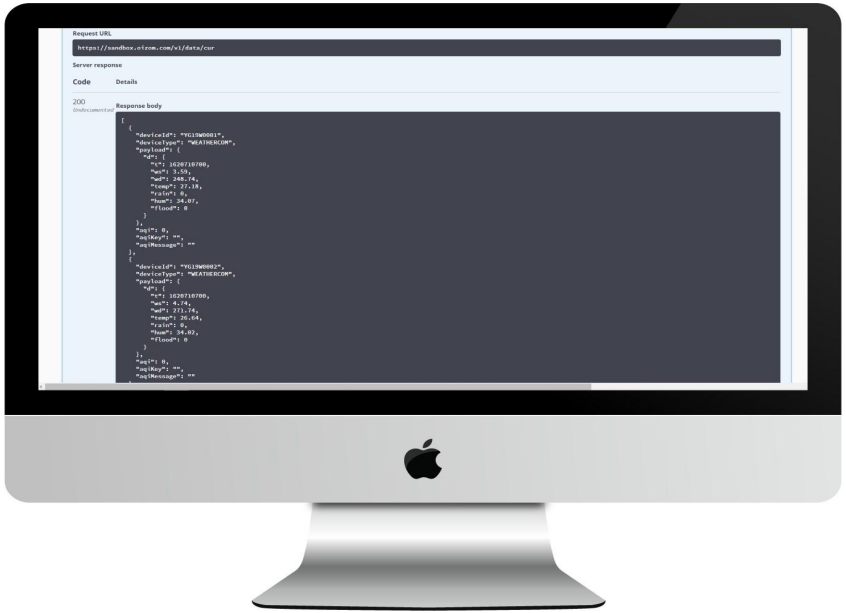
Screen Display
Customizable screen displays to showcase data on LED screens , TV , monitors etc

Types of screen display
Average AQI Screen, Parameter Screen, AQI Comparison Screen & Cluster Comparison Screen

iframe Code
Embedded iframe code for the each display for integration with other tools.

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Secured APIs



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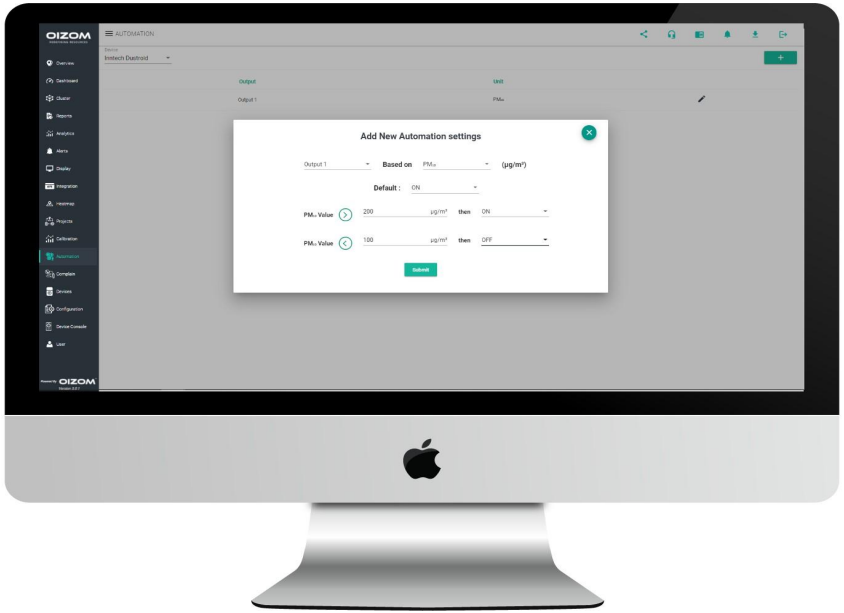
Secured APIs
Oizom REST APIs are secured. MQTT and HTTP protocols followed

Integrable
Integrated with 3rd party tools like ICCC , software and applications.

Secured token
Secured token can be generated by using specific Client ID and Client Secret

Oizom APIs accessed in 3 ways
By downloading Swagger Collection , by downloading Postman Collection and test it on Oizom Cloud

Automation Module



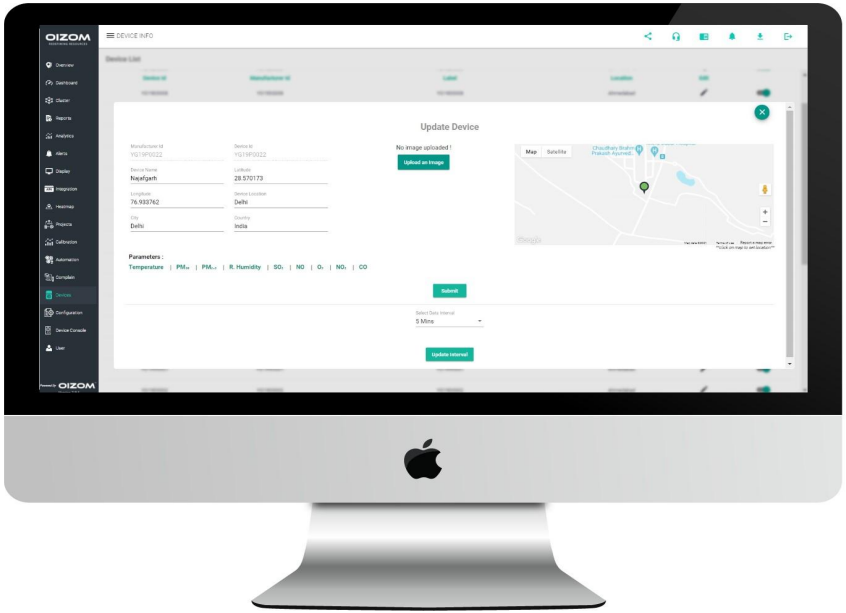
Automation
Automate a device based on the trigger threshold configurations set by the user

Relay Based
Toggle a relay-based switch of an external device based on threshold configurations set by user

Multiple configurations
Numerous configurations can be configured for each device.

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Device Management



Device List
Viewing detailed information of all the user allotted devices in single screen

Edit Device Information
Edit and update all the device related information like Label , Latitude , Longitude , City and Country

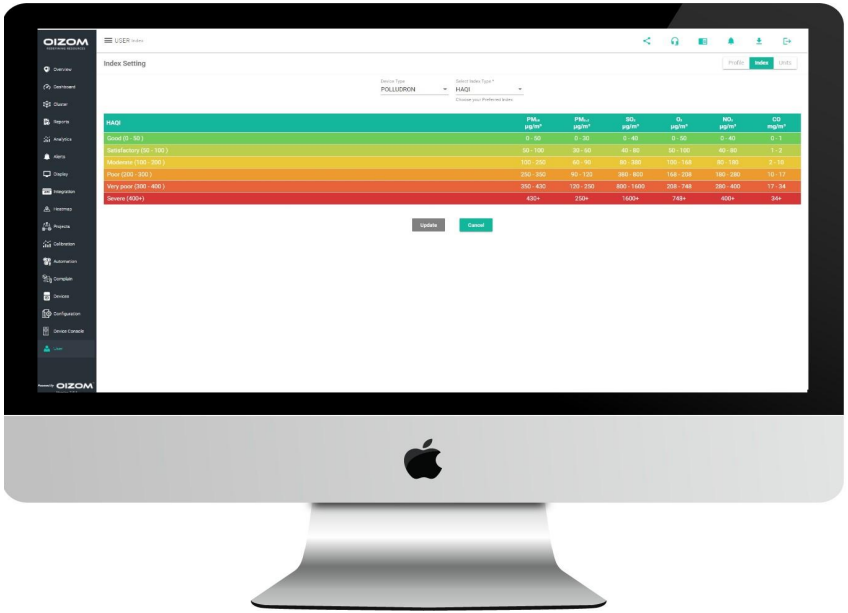
Device Interval
User defined time interval selection for various viewing data at 2, 5, 10, 15 and 60 mins.

Enable/Disable
Enable and disable the devices with toggle on/off option for each device

Device Image
Photograph of the device at the specific location can be uploaded here.

Complimentary

User Management



User Profile
Create, edit and delete multiple sub user profiles

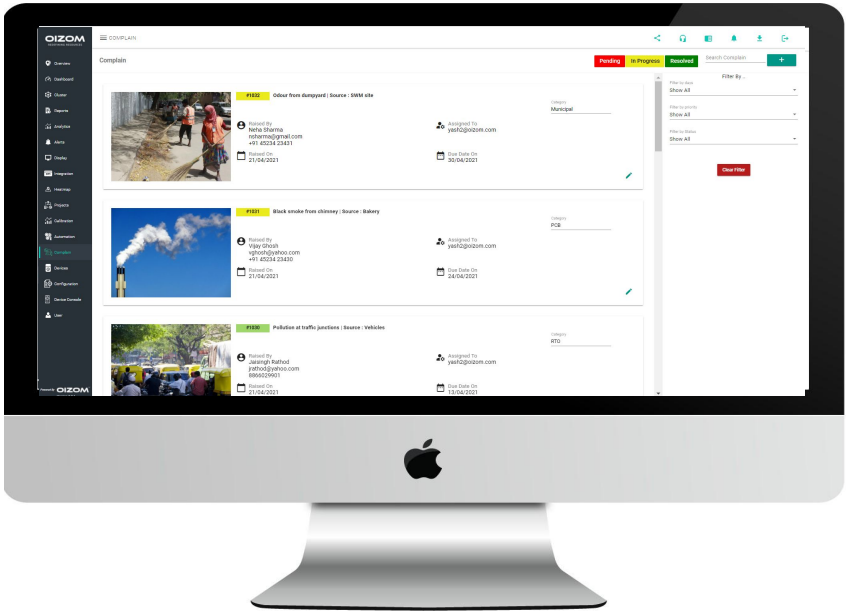
Customize modules and devices
For each sub user visible devices and modules can be selected

AQI Management
AQI type selection from HAQI and USAQI options as per sub user

Units Selection
Update units of all parameters from the given options according to the sub user

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Complain Management



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Citizen complains
Complains can be generated by citizens and can be viewed and updated by user

Geo-mapping
The complaints along with the pictures can be geo-mapped for identification of location

Complain management
Complaints can be categorized and assigned with multi-level priority & status information

Integration
The data from 3rd party platforms can be integrated into this software

3rd Party Data Onboarding



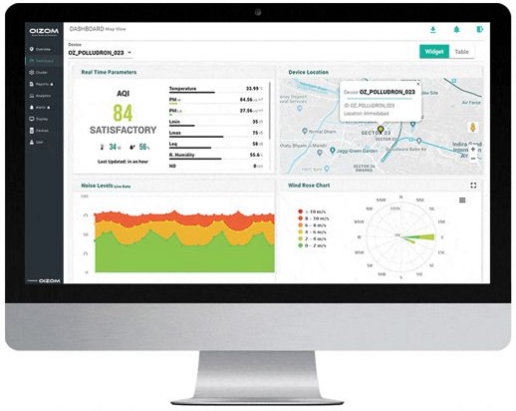
Data Onboarding
Environment related data from other platforms can be integrated in Oizom Application

API Integration
Data from other platforms can be integrated using data onboarding APIs.

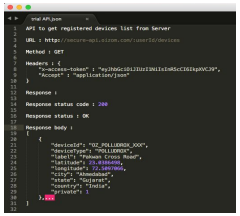
Data
The data of other reference stations , stack monitors can also be integrated on this platform and then can be visualized and analysed.

Complimentary (customized)

Data Accessibility



The accumulated data can be visualized and analysed as preferred and suited best for end use-case application.Better data accessibility enables the end customer to take better data-driven actions.



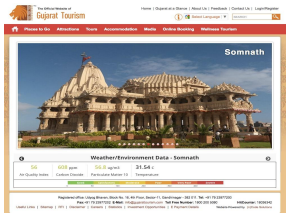
MQTT/HTTP APIs



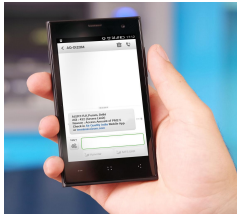
TV Interface



Outdoor LED



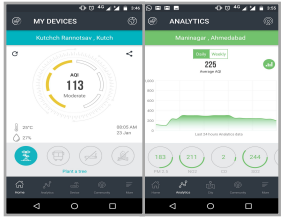
Web Widget



Smart Notifications



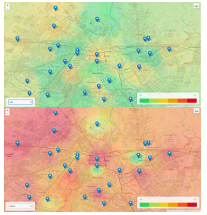
Print Ready Reports



Mobile App



Voice Activation



Pollution Heatmap

Sky is the limit

Using Oizom Hardware & Software Products