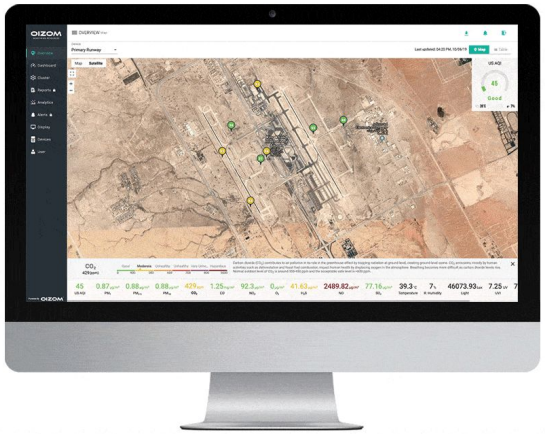
Smart | Cost-effective | Highly-scalable

Accurate Air Quality Monitoring and Advanced Data Analytics

Oizom® Hardware & Software Ecosystem



- Actionable Alerts
- Insightful Reports
- Predictive Analytics
- Industrial Automation
- LED Display / TV / Web
- Mobile App

Powered by
e-Breathing Technology™

30+ Environmental Parameter Monitoring Capability

- Dust Pollution
- Emission Gases
- Odourful Gases
- Noise Level
- Radiation
- Weather Condition

Environmental Data Analytics 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).

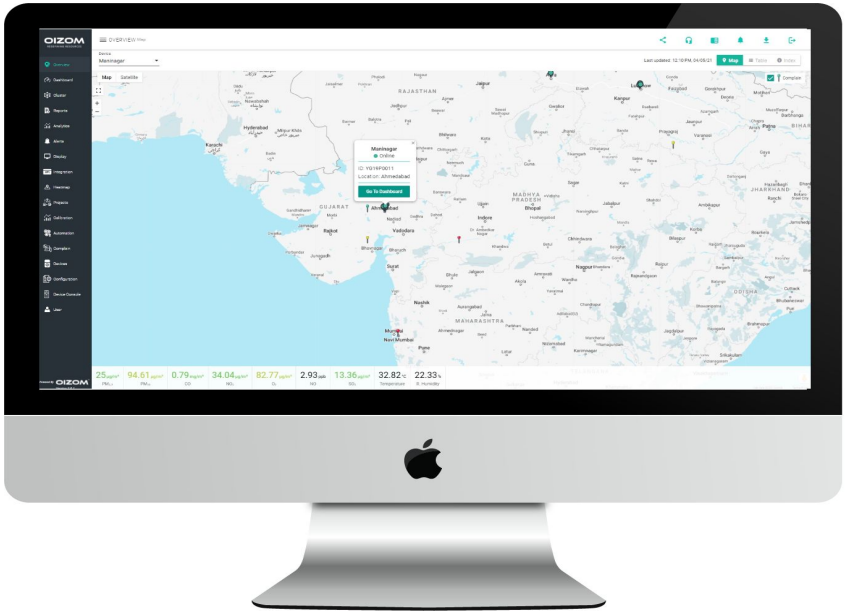
Environmental Widget

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

Custom Dashboard

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

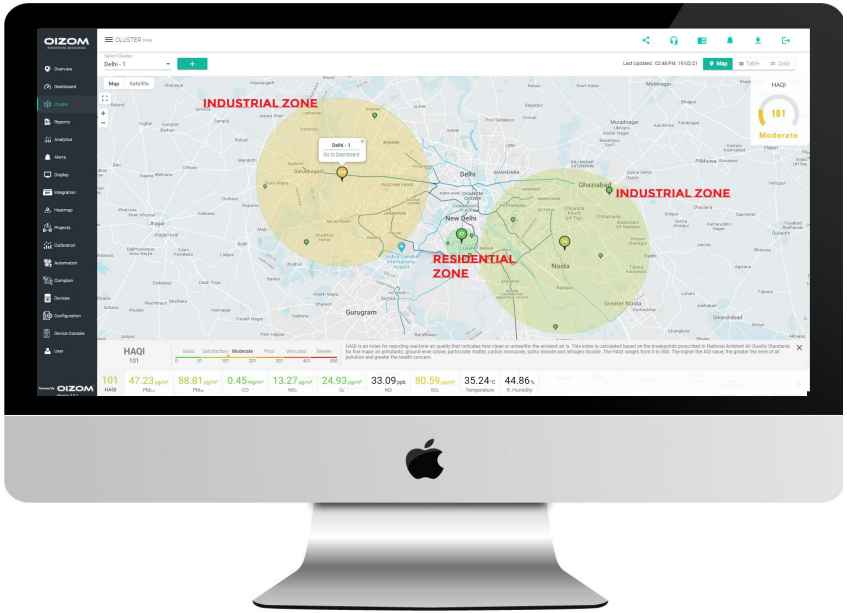
Table view
Viewing data in Tabular format for specific date range and time interval

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

Cluster Module



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

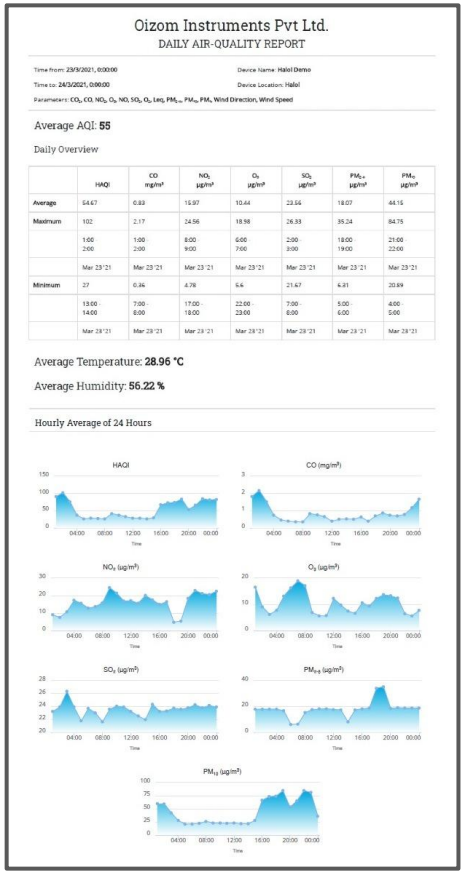
Grouping
Multiple devices can be grouped together to get the overall environmental status of a specific region

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

Scheduled Reports



Oizom Instruments Pvt Ltd.

DAILY AIR-QUALITY REPORT

Time from: 23/3/2021, 0:00:00 — Device Name: Halol Demo

Time to: 24/3/2021, 0:00:00 — Device Location: Halol

Parameters: CO_2, CO, NO_2, O_3, NO, SO_2, O_3, Leq, $PM_{1...}$, $PM_{2...}$ PM_x, Wind Direction, Wind Speed

Average AQI: **55**

Daily Overview

	HAQI	CO mg/m³	NO_2 µg/m³	O_3 µg/m³	SO_2 µg/m³	$PM_{2.5}$ µg/m³	PM_{10} µg/m³
Average	54.67	0.83	15.97	10.44	23.56	18.07	44.16
Maximum	102	2.17	24.56	18.98	26.33	35.24	84.75
	1:00 - 2:00	1:00 - 2:00	8:00 - 9:00	6:00 - 7:00	2:00 - 3:00	18:00 - 19:00	21:00 - 22:00
	Mar 23'21	Mar 23'21	Mar 23'21	Mar 23'21	Mar 23'21	Mar 23'21	Mar 23'21
Minimum	27	0.34	4.78	5.6	21.47	4.31	20.89
	13:00 - 14:00	7:00 - 8:00	17:00 - 18:00	22:00 - 23:00	7:00 - 8:00	5:00 - 6:00	4:00 - 5:00
	Mar 23'21	Mar 23'21	Mar 23'21	Mar 23'21	Mar 23'21	Mar 23'21	Mar 23'21

Average Temperature: **28.96 °C**

Average Humidity: **56.22 %**

Hourly Average of 24 Hours

Automated Reports

Reports emailed to subscribers in print ready PDF format

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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.

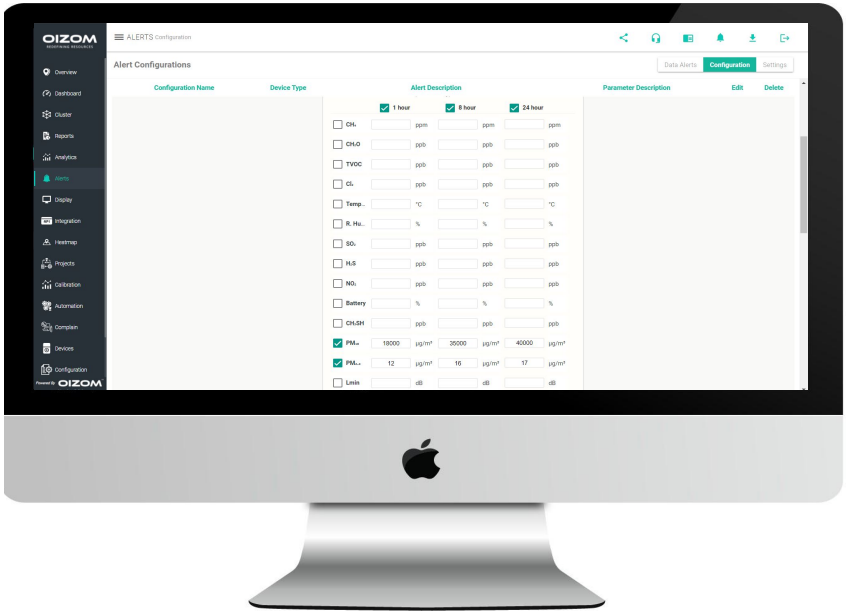
Parameter comparison
Comparing multiple parameters of single device (Eg. PM_{10} and Humidity)

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.

Data Alerts



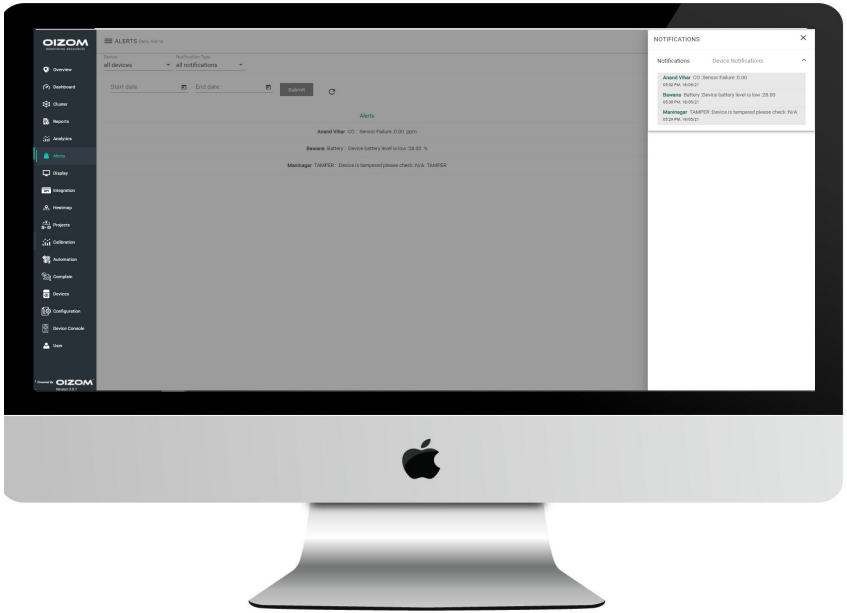
Alerts
Provides alerts to users based on condition. If the value goes beyond a threshold point alerts will be triggered.

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

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

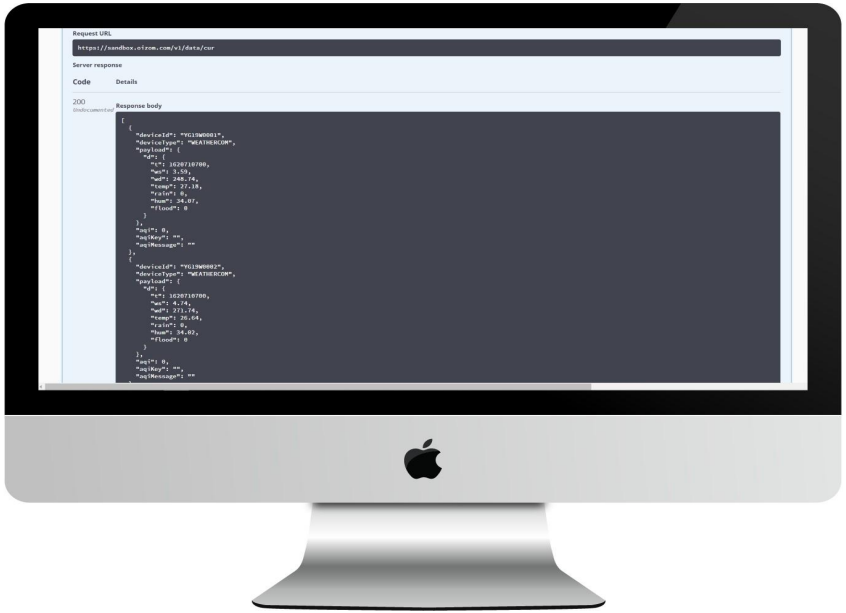
Data Comparison Display

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.

Secured APIs



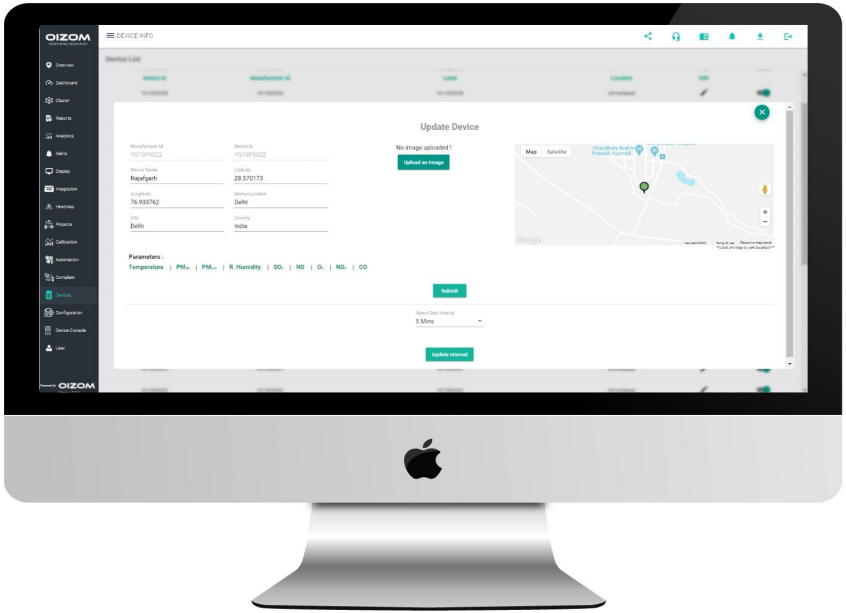
Secured APIs
Oizom REST APIs are secured. MQTT and HTTP protocols followed

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

Device Management



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

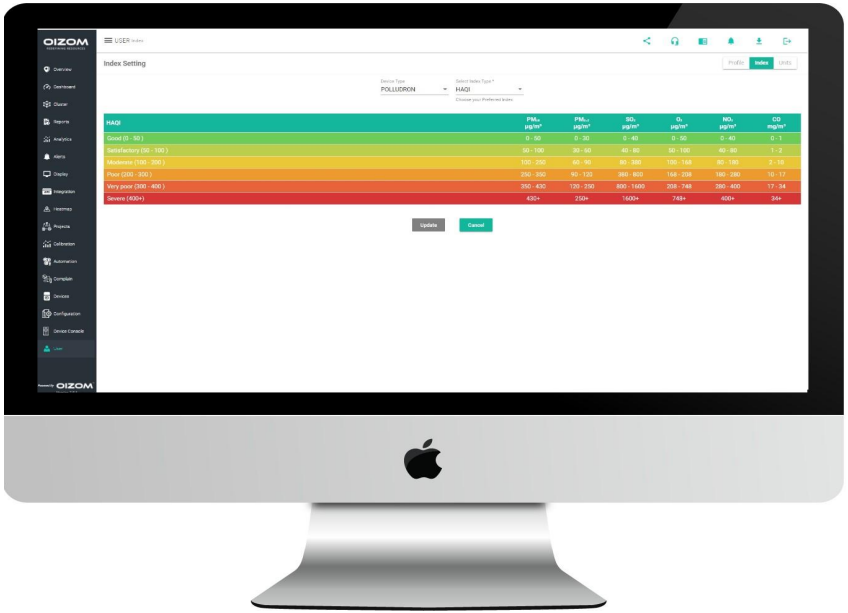
Edit Device Information
Edit and update all the device related information like Label , Latitude , Longitude , City and Country

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.

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

Sky is the limit

Using Oizom Hardware & Software Products