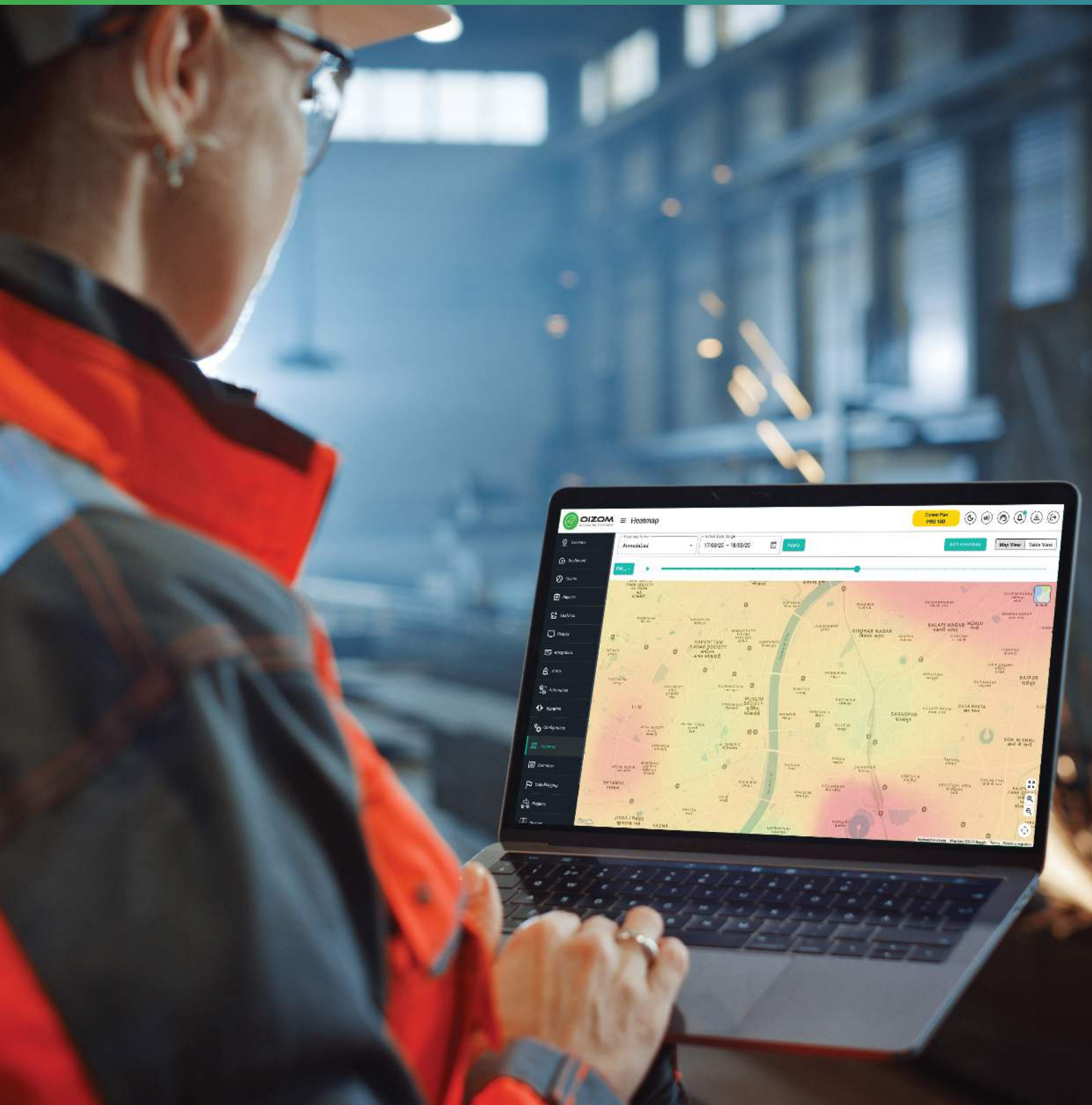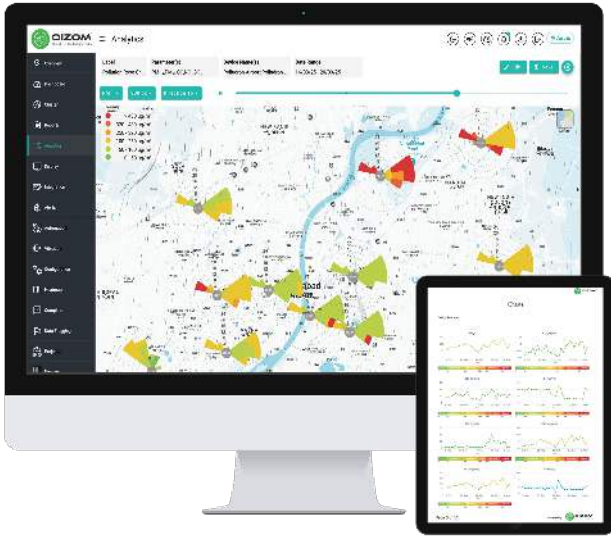# Envizom™

Advanced Environmental Monitoring Software for Professionals

About Envizom™

Envizom™ is Oizom's Environmental visualisation & analytics platform, built to turn complex air quality data into actionable insights. Providing remote visibility & control, it consolidates data from multiple sites, parameters, & devices into a single, intuitive dashboard. Our Environmental Data Interpretation Engine, powered by Artificial Intelligence & Machine Learning algorithms, provides accurate, real-time data, helps identify pollution sources, & understands directional trends. From city-wide comparisons to site-specific trends, smart multi-dimensional analytics enable comparisons across locations, parameters, & time spans. Envizom™ uses secure servers for data storage and on-premise storage is also supported.

The Dashboard module shows the data in different widgets, whereas the Analytics module provides a comprehensive analysis of environmental data, comparing various parameters, equipment, & chronology. In addition, Envizom™ also offers advanced modules like heated map, analytics, smart alerts, & process automation.

Envizom™ Features

Real-Time Data
Envizom™ platform offers real-time data visualisation of all environmental parameters.

Automated Reports
Get automated reports every day/ week/ month and download quick reports to understand and analyse the air quality data with different formats.

Smart Alerts
Set alerts based on predefined threshold values and send notifications to the respective users through SMS, Email and Push notifications.

Advanced Analytics
Analyze and compare environmental data of multiple devices and various parameters with different methods, like device comparison, parameter comparison, and pollution rose.

Trusted Data Protection
Envizom™ is certified and security-tested with global standards like IEC 62443, OWASP, SAN 25, and TMC security.

All Data Accessibility
Envizom™ connects with existing AQM stations, reference analyzers & legacy non-IoT setups, bringing all environmental data online.

Endorse Your Brand
Customize the Envizom™ platform by adding your brand logo to endorse your brand.

Easy To Integrate
Through our REST APIs, data from all the Oizom® products can be integrated into any third-party software platform.

Process Automation
Enable process automation using our relay-based module and set thresholds to automate the integrated systems.

Integrate External Sensors
Integrate and monitor data of third-party accessories such as Vibration, Noise Class 1 Compliant, Lightning, Evaporation, & Soil sensors.
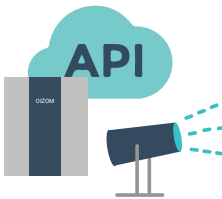
Why Choose Envizom™

Multi Level User Management

Envizom™ offers a multi-level user hierarchy with Admin, Users, and Sub-users. Admin and Users have the right to add, edit, and delete users, software modules, and devices as per the project requirements. The admin can set the software module expiration date, prevent unauthorized modification or data removal, and control the number of visible devices.

Tech Support

Oizom® provides remote and on-field technical support. We also have a ticketing system to maintain all support-related issues. We maintain a 24-hour SLA to ensure a prompt and professional response. The technical team helps the onsite personnel to carry out troubleshooting of the issue.
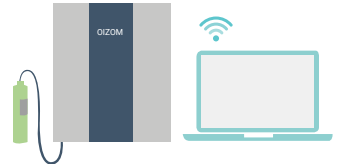
Supports Third Party Devices

Using APIs of third-party devices, data can be visualised on Envizom™. Thus, users can access and analyse environmental data from their multiple devices on our platform.

Calibration Module

With an on-device calibration software module, our partners and users can calibrate Oizom equipment in the lab or on-site. Users can also view and access historical calibration data.

Remote Diagnostics

Oizom's architecture enables remote diagnosis for all devices. The tech team performs proactive maintenance, including remote calibration updates for optimal performance and over-the-air firmware updates to keep your device secure and functioning at its highest efficiency.

Envizom™ Modules

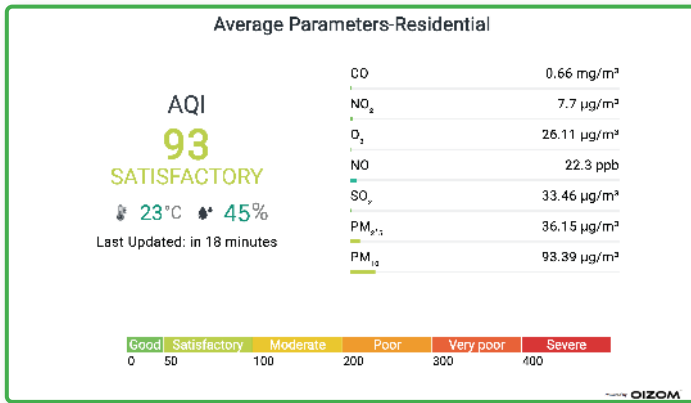**INSIGHTS** - Visualize Your Environment In Real-Time

Overview

The overview module provides users with a bird's eye view of the multiple type of devices and the real-time air quality index with data of various parameters.
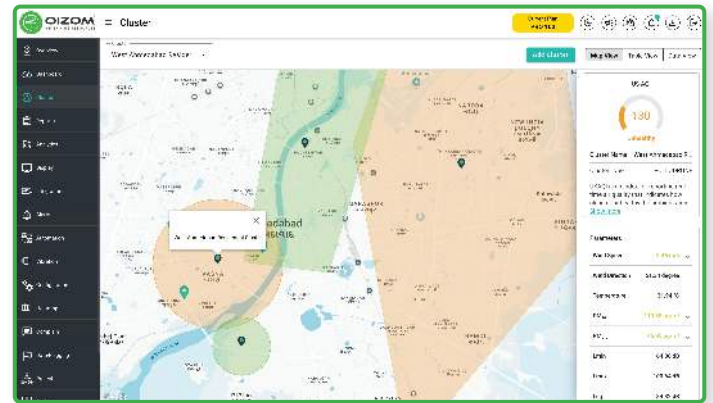
Dashboard

The dashboard is a complete visualisation module for users to analyse environmental data with Forecasting and Rose Charts.

Display

The display module is used to create custom screen displays, sharing environmental insights via smart TV to spread awareness & allow data-driven actions.
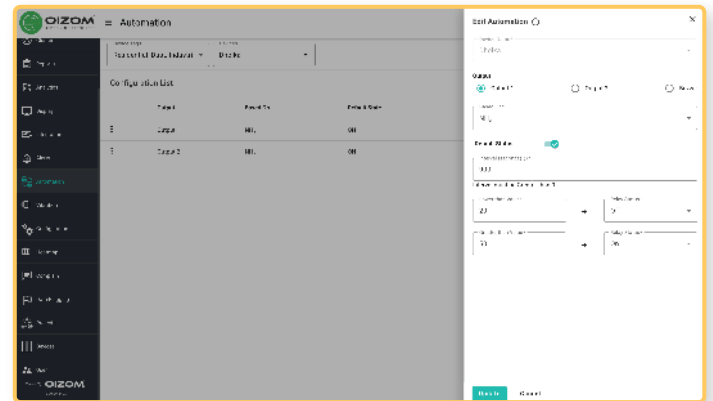

Cluster

The cluster module lets users group specific devices and can display an average of their selected devices' data.

ACTION - From Thresholds To Triggers

Vibration

With smart vibration sensor integration, the vibration module provides real-time & historical ground vibration data in mm/s and g-force in Hz via secure APIs or wired connections.
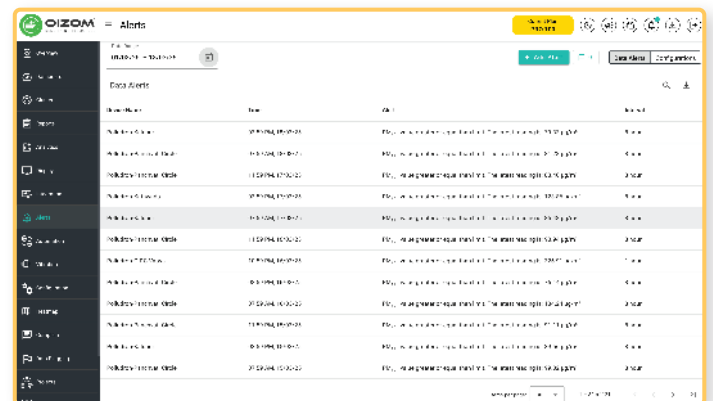

Automation

An automation module can be utilised to trigger external equipment with a 2-channel relay switch.

Reports

The reports module lets user control the automated report generation for each device. These are print-ready reports with interactive charts and analysis.
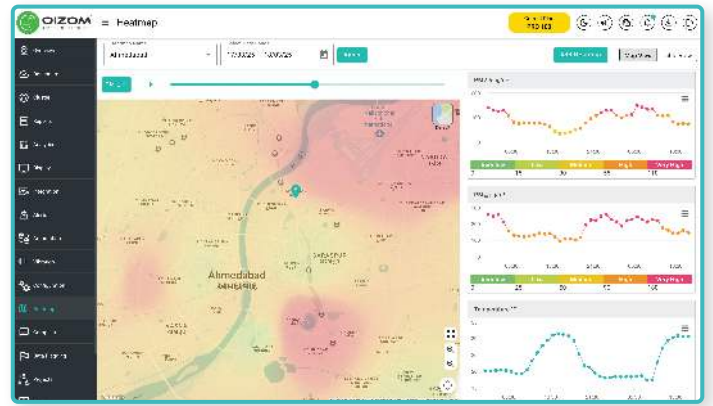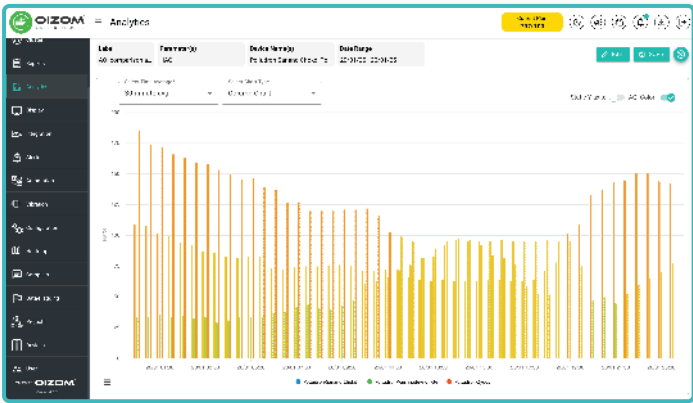

Alerts And Notifications

The Alerts Module notifies the user for the specific condition through SMS and E-mails.

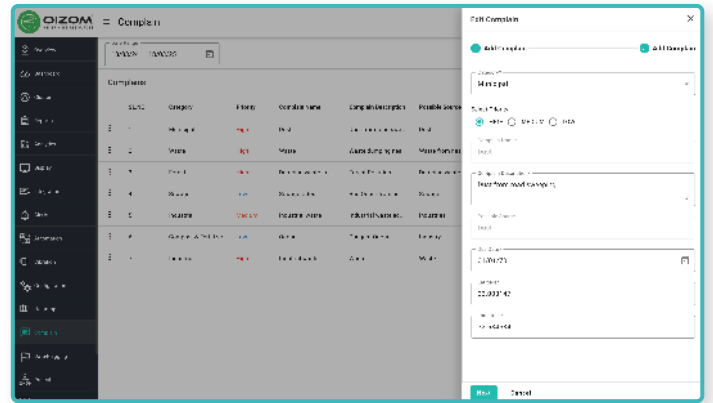# INTELLIGENCE - Decode Patterns. Discover Possibilities

Data Validation

Environmental data can be flagged into categories such as invalid, failure, calibration, maintenance, etc. and can be reported with color coded charts.

Heatmap

Using custom Inverse Distance Weighting algorithm combines met-factors to generate accurate heatmaps. This deterministic interpolation enhances prediction by estimating values on nearby data points.
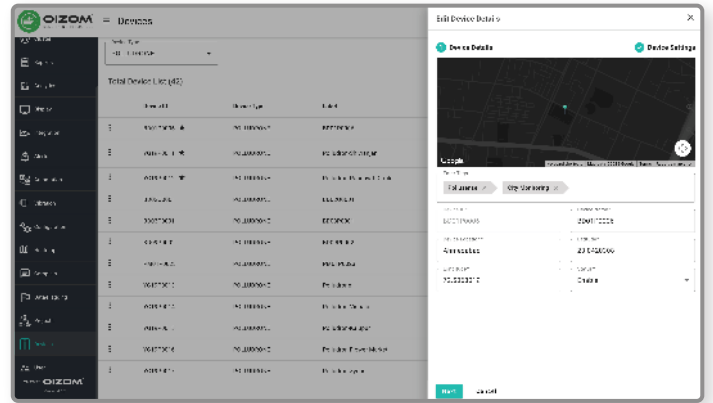

Analytics

The Analytics module enables users to review comprehensive analysis of environmental data in different formats.

Complain

The complain module lets users track, add, & categorise complaints. Complaints from 3rd party platforms can be onboarded via APIs.

ACCESS - Control Users, Devices, And Permissions

User Role Management

The user module allows admins and to create multiple users account, assign software modules & devices, and also select AQIs based on geography.

Device Management

The Devices module lets users view all registered devices on a single screen. The user can manage, and edit their devices' information.

Solution Architecture

3ʳᵈ Party CEMS
Continuous Emission Monitoring Systems

Envizom™

Remote User Access

ICCC
Integrated Command & Control Centers

3ʳᵈ Party EMS
Environmental Monitoring Stations

Oizom's Real-time Air Quality Monitors
Polludrone, Odosense, Dustroid, Weathercom, AQBot, Pollusense

3ʳᵈ Party CAAQMs
Continuous Ambient Air Quality Monitoring Systems

3ʳᵈ Party Control Equipments
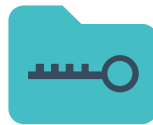Mist cannons, HVAC, Dust Collectors, Ozonizers, etc.

Privacy First Platform

Data Privacy

The data shared with the client uses an encryption server through Secure Socket layers. Envizom™ also uses AES encryption for connection that adds to data safety.

Data Ownership

Envizom™ creates a secure and encrypted password combination for the user login. Oizom® ensures 100% privacy of the data and doesn't share without relevant permissions.

Data Transparency

Data collected from Oizom® equipment runs through the Environment Data Interpretation Engine. It processes various algorithms and eliminates environmental impact interferences on the sensors.

Certifications

Top 25 CWE · SANS | OWASP Open Web Application Security Project | IEC IEC 62443-4-1 | API Security Tested | 100w Cybersecurity Practices | TCM SECURITY

Envizom™ Capabilities

74	**2.5** Million	**120,000+**
different range of PARAMETERS	data points MEASURED everyday	alerts GENERATED yearly

Visualisation & Analytics

Envizom™ web-based air quality monitoring software enables professionals to remotely monitor and analyze air quality data. Users can track multiple devices and parameters for better insights.

Data Access

Envizom™ generates data insights in various formats, like printable reports and downloadable CSVs. Data transfer integration to a 3rd party application or external IT infrastructure is possible through Oizom® APIs.

Smart Display

Using various data publishing mediums, environmental health advisory can be served at once. With Envizom, air quality data can be displayed on LED boards, TV screens, and web widgets to raise public awareness.

Environmental Actions

Oizom® makes environmental data more understandable by offering immediate alerts for timely decisions. Data-driven suggestive actions help prevent significant future risks, such as industrial accidents and natural or man-made hazards.

Process Automation

Threshold-based alerts can now be triggered using the Automation module in Envizom™. User-defined limits can be assigned to specific parameters. On breaching such limits, 3rd party equipment like mist cannons can be switched ON/OFF.

OIZOM®
REDEFINING RESOURCES

Trusted by
80+ Countries

Solutions Installed in
90+ Cities

Total Devices Installed
3500+

Total Population Covered
250 million+

Global Presence

Changing the way Industries monitor air quality

OIZOM®
REDEFINING RESOURCES