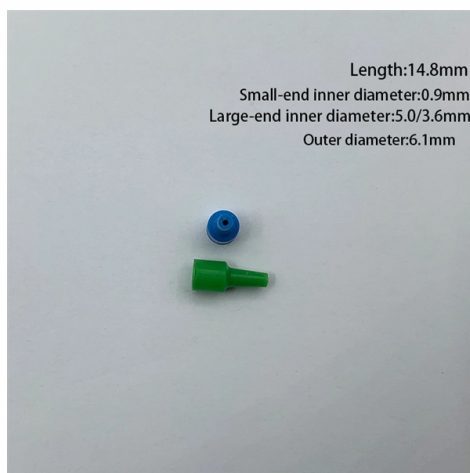


Data Center 3D Visualization Platform Solution



Overview

3D Data Center Visualization: Interactive Data Center With Sunbird's data center visualizations, see 3D that's faster, easier, and smarter than physically.

Key Takeaways

3D data center visualization platforms provide virtual modeling, real-time monitoring, and operational insights to optimize infrastructure, power, cooling, and asset management. Overview of 3D Visualization Platforms

3D visualization platforms for data centers allow operators to view, monitor, and manage both physical and virtual infrastructure in a highly interactive environment. These platforms create digital twins or virtual replicas of data centers, enabling planning, monitoring, and optimization without physically being on-site (Sunbird, Cadence Reality DC Digital Twin, EkkoSense 3DCIM) .

Key Features

- Digital Twin Modeling: Platforms like Cadence Reality DC Digital Twin and EkkoSense 3DCIM provide precise 3D models of existing and planned data centers, including racks, servers, cooling units, and network devices, allowing simulation of deployment scenarios and failure conditions .
- Real-Time Monitoring: nuVIZ and EkkoSense 3DCIM integrate environmental sensors, power meters, and IoT devices to track temperature, power utilization, and cooling efficiency in real time, helping prevent outages and optimize energy usage .

- **Asset and Capacity Management:** Tools like EkkoSense 3DCIM and ManageEngine OpManager enable inventory tracking, rack space management, and capacity planning, ensuring accurate asset data and efficient utilization of power and cooling resources .
- **Thermal and Power Optimization:** Platforms provide heat maps, CFD simulations, and energy efficiency analytics to reduce cooling costs and maintain ASHRAE compliance, as seen in EkkoSense 3DCIM and Cadence Reality DC Digital Twin .
- **Virtual Walkthroughs and Layout Planning:** nuVIZ and OpManager allow users to navigate the data center virtually, visualize network topology, and plan adds, moves, and changes without disrupting operations .
- **Integration and Reporting:** These platforms often integrate with DCIM tools, ticketing systems, and environmental monitoring, providing dashboards, automated reports, and actionable insights for decision-making .

Benefits

- **Operational Efficiency:** Reduce manual inspections and improve decision-making with real-time, 3D visual insights .
- **Energy and Cost Savings:** Optimize cooling and power usage, potentially reducing energy costs by up to 30% .
- **Enhanced Planning and Risk Management:** Simulate failure scenarios, plan expansions, and manage capacity proactively .
- **Remote Management:** Access and monitor multiple sites from a single console, minimizing the need for on-site visits .

Leading Solutions

- **Sunbird DCIM** – Fast, interactive 3D visualization for monitoring and managing data center health .
- **nuVIZ** – Detailed 3D visualization of physical and virtual infrastructure, including virtual machines, network topology, and environmental monitoring .
- **Cadence Reality DC Digital Twin** – Combines digital twin modeling with CFD simulations for cooling optimization and operational planning .
- **ManageEngine OpManager** – 3D modeling and monitoring with device health visualization, dashboards, and root-cause analysis .
- **EkkoSense 3DCIM** – Integrates real-time thermal, power, and capacity monitoring with asset management for enterprise-scale data centers . These platforms collectively enable data center operators to visualize, optimize, and manage infrastructure efficiently, improving uptime, energy efficiency, and operational decision-making.

Article Content

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Our 3D visualization platform allows to view the datacenter from every angle and every piece of equipment

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Create fast and accurate data center digital twin models of existing or future data centers. The models can be used to explore

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3D Digital Twin for Data Center Construction Management

CupixWorks" AI-powered 4D digital twin platform streamlines data center construction through automated progress tracking, remote

Visual DAQ

Our platform allows mesh-based 3-dimensional layout definition of your data-collection points (measurement system), modelling of

3D Data Center Visualization Platform

This video demonstrates the capabilities of CloudSino 3D data center visualization platform. Through refined 3D modeling, it unifies

Datacenter Visualization | 3D Datacenter

Leverage OpManager, a powerful data center monitoring & visualization tool, to eliminate visibility gaps and enhance performance.

Data Center Visualization | NetZoom DCIM

NetZoom provides Data Center visualization at all levels of the data center. View rack elevations with capacity overlays, data center

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