



4DKanKan Meta, a self-developed 3D laser scanner by the 4DAGE, relies on artificial intelligence algorithms to achieve high-precision 3D reconstruction of space. With the advantages of high efficiency, high precision and low cost, 4DKanKan Meta has become a cost-effective 3D laser scanner in the industry, widely used in public safety, forensic engineering, asset management, architecture, engineering and construction, residential real estate, culture digitization and etc.

4DAGE, established in October 2014, is dedicated to artificial intelligence 3D digitalization, digital twins, and the research and application of new technologies in the surveying and mapping industry. With years of practical experience in 3D digital reconstruction, 4DAGE has released a variety of reality 3D acquisition devices. As of April 2024, 4DAGE has 111 authorized patents and 214 software copyrights.



4DKanKan Series Products



4DKanKan



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4DKanKan Meta

Terrestrial Laser + Wearable SLAM Scanner

4DKanKan Meta is a brand new 3D laser scanner with dual acquisition modes of terrestrial laser scanning and wearable SLAM . Equipped with 905nm ultra-wide-angle LiDAR and combined with the industry's leading point cloud fusion algorithms, 4DKanKan Meta can produce 16K high-definition panoramas and high-precision point cloud data, with a point cloud accuracy of 1cm. Equipped with multi-functional modules such as RTK module, thermal module and multi-spectral module, it provides in-depth solutions for the industries.

Multi-functional Modules

Through the external and independent function modules, 4DKanKan Meta is able to display data from multiple dimensions based on 3D data.



RTK

Supports GPS and BDS signal reception, solution and positioning, quickly providing accurate location information.



Thermal

With high sensitivity temperature detector, the thermal module of 4DKanKan Meta can quickly read the information of ambient temperature, measurement precision at $\pm 2^{\circ}\text{C}$.



Fill Light

When working in a dark environment, you can use the fill light to complement the acquisition, high brightness, low power consumption, improve the work efficiency.

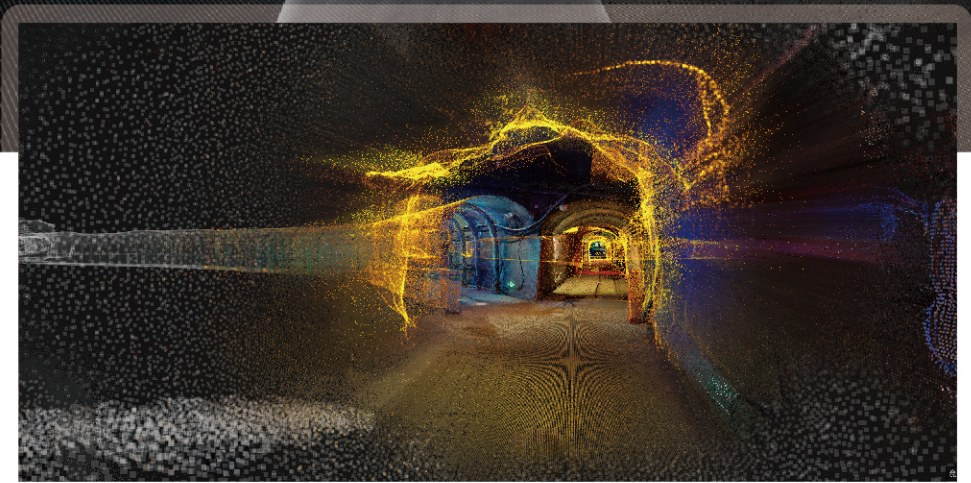
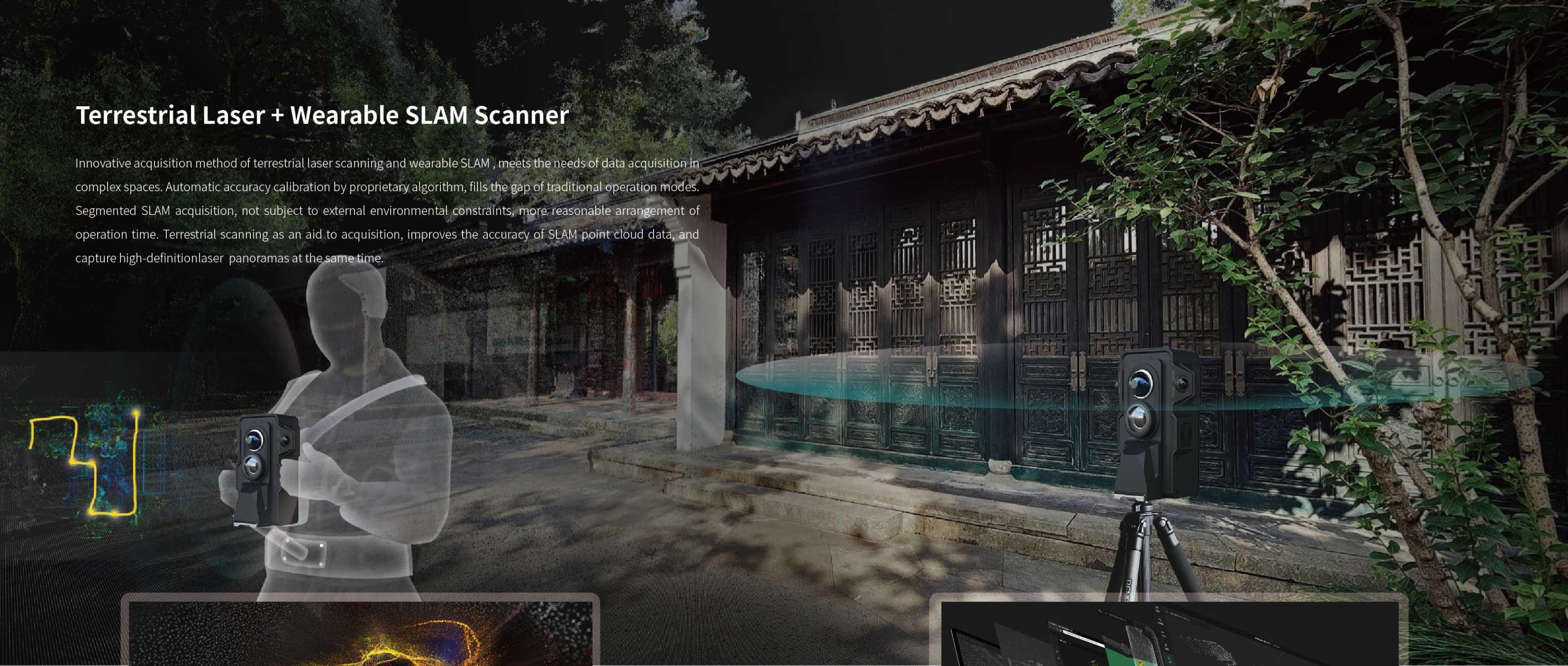


4DKanKan Meta

In-depth customization for industry characteristics.

Terrestrial Laser + Wearable SLAM Scanner

Innovative acquisition method of terrestrial laser scanning and wearable SLAM , meets the needs of data acquisition in complex spaces. Automatic accuracy calibration by proprietary algorithm, fills the gap of traditional operation modes. Segmented SLAM acquisition, not subject to external environmental constraints, more reasonable arrangement of operation time. Terrestrial scanning as an aid to acquisition, improves the accuracy of SLAM point cloud data, and capture high-definitionlaser panoramas at the same time.



Dynamic Coloring

Using two wide-angle cameras and multi-sensor clock synchronization algorithms, the point clouds are dynamically and accurately colored during SLAM operations and rendered in real time to replicate the real world.



Multi-functional Accessories

Innovative idea of modularization, brings extraordinary experience. Through the external and independent function modules, such as RTK module, thermal module, multi-spectral module and fill light module, the multiple modules of 4DKanKan Meta are able to display data from multiple dimensions based on 3D data.

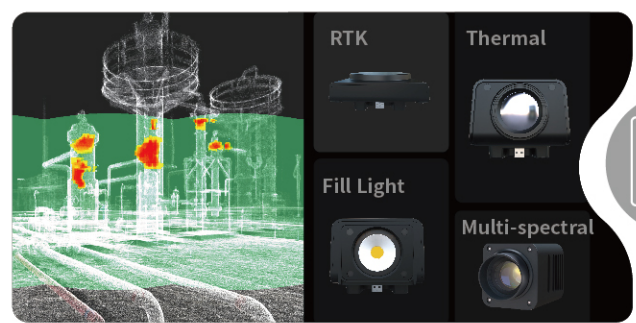
Product Features

New experience for 3D digitalization



Terrestrial Laser + Wearable SLAM

Innovative acquisition method of Terrestrial Laser Scanning + wearable SLAM, self-developed algorithms automatically calibrate the accuracy.



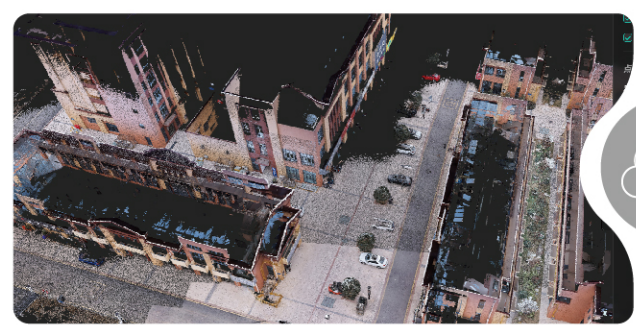
Multi-functional Modules

Abundant external and independent function accessories. 4DKanKan Meta can connect to thermal module, multi-spectral module, high-precision RTK module, and fill light module.



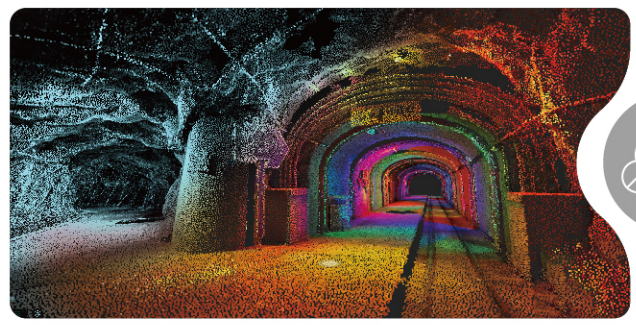
16K Ultra-HD Panorama

Ultra-HD vision lens, collects point clouds and captures 16K Ultra-HD panoramas at the same time, with true-color point cloud coloring at the pixel level.



Point Cloud Accuracy at $\pm 1\text{cm}$

905nm ultra-wide-angle LiDAR, fully automated point cloud generation with centimeter-level accuracy to capture more 3D spatial data.



Dynamic Coloring of Point Cloud

Using two wide-angle cameras and multi-sensor synchronization algorithms, the point clouds are dynamically and accurately colored and rendered in real time to replicate the real world.



AI Algorithm Processing

Fully automated AI post-processing, produces point cloud, panoramas and Mesh model with one touch once the data is captured and uploaded.



Supporting Software

Powerful editing platform that allows you to view, measure, edit and export point clouds and panoramas, and supports professional software.



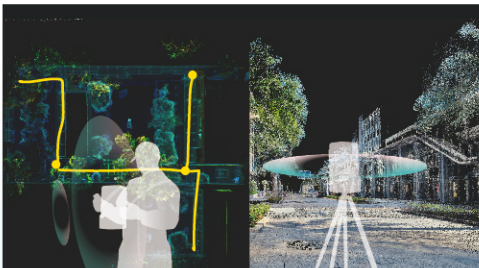
Information Privatization

Supporting the privatization of IT information, we are building a digital twin center for industrial users to keep data safe and secure.

Instructions

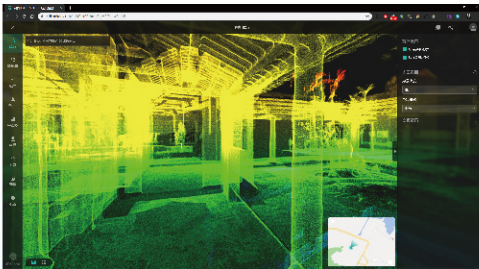
Easy to use, fully automated processing with one-click upload

1 Space Acquisition

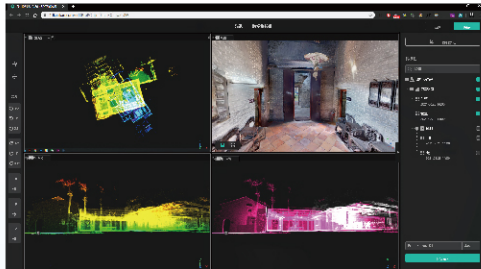


Extremely fast field acquisition, self-developed algorithms for automatic accuracy calibration; Segmented SLAM acquisition combined with terrestrial laser scanning, improves the accuracy of SLAM cloud data, and captures high-definition panoramas at the same time.

2 Data Processing

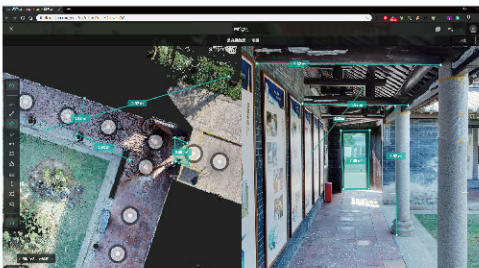


Once the data is uploaded to the server, the point cloud data and images will be automatically processed to quickly generate mesh models and roaming scenes.

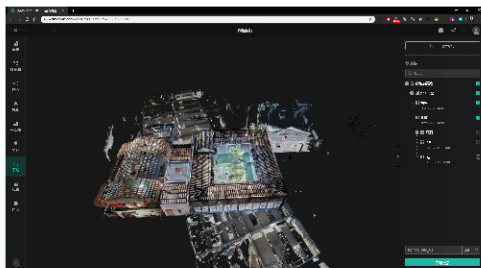


The editing platform provides functions such as calibrating datasets, merging multiple datasets, adding labels, editing point clouds, registering geographic information, and drawing floor plans.

3 Data Publishing

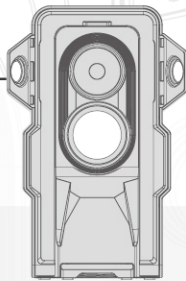


Data is published in the form of scene roaming, supporting panoramas and point clouds in multiple modes of immersive roaming, and supporting accurate measurements within the scene.



Supports point clouds downloaded in LAS, PLY and E57 format, model data in obj format, and panoramas download. Supports scene offline package download for private deployment.

Technical Specifications



Device Type	3D Laser Scanner
Capturing Mode	Terrestrial Laser Scanning, SLAM
Laser Safety Class	Class 1(IEC60825-1:2014) Eye-Safe
Scanning Range	0.2m~70m
Field of View	Horizontal 360°, Vertical 320°
Laser Wavelength	905nm
Accuracy	±1cm
Image Resolution	16384×8192px
Output Format	Point Cloud (.las, .ply, .e57), Model(obj), Panorama (jpg)
Storage Device	16GB LPDDR4 Memory 128GB eMMC Storage
Wifi	Wi-Fi 802.11a/b/g/n、2.4/5GHz
Bluetooth	16k 16bit AAC
Battery	Lithium Polymer Battery, with Battery Life up to 4 Hours.
Positioning System	GPS/ BDS
Product Dimensions	258mmX169mmX141.5mm
Weight	≈2.9kg(Battery Included)
Working Temperature	-5°C to 45°C

Application Scenario

In-depth customized solutions for industry characteristics.

4DKanKan Meta for Municipal Infrastructure

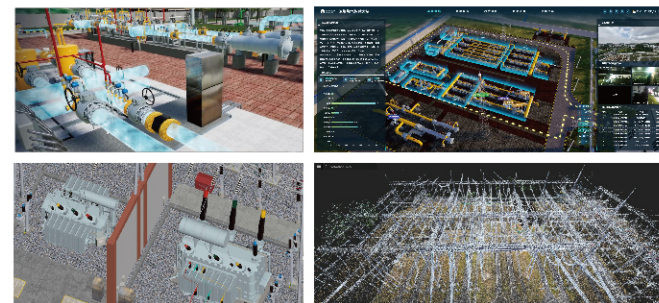
Improve urban planning and efficient infrastructure management.

The 4DKanKan Meta Advantage

4DKanKan Meta enables precise digital twin modeling of municipal infrastructure, accurately capturing the location, dimensions, and material specifications of underground utilities like pipelines, cables, and pump stations. This ensures complete and reliable data for urban planning, construction, and safety management, improving efficiency and precision across all stages of municipal projects.



4DKanKan Meta's digital twin technology revolutionizes municipal infrastructure by offering real-time, accurate data for planning, construction, and maintenance. It enables efficient resource allocation, streamlines execution, and ensures compliance with safety standards. By providing insights into the entire lifecycle, it supports proactive decision-making and predictive maintenance, helping cities enhance operational efficiency, reduce downtime, and build more sustainable urban environments.



4DKanKan Meta for Forensic Engineering

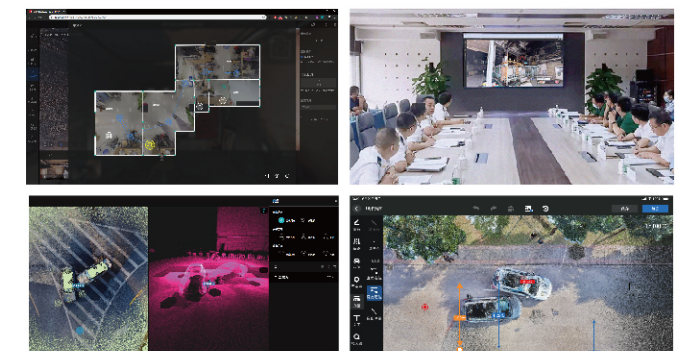
Streamline forensic engineering investigations with our powerful 4DKanKan Meta digital twin technology for precise documentation, virtual reconstruction, and data-driven analysis.

The 4DKanKan Meta Advantage

With 4DKanKan Meta, law enforcement officers can capture scene data and obtain rapid results, enhancing on-site investigation and evidence collection in criminal, traffic, and fire scenes. The scanner, equipped with thermal, multi-spectral, and RTK modules, provides comprehensive data to support public safety management, enabling efficient scene preservation.



Our cutting-edge 4DKanKan Meta scanner provides immense value to our clients by capturing comprehensive data. This data plays a vital role in preserving the scene and collecting evidence, empowering investigators to uncover essential details, identify patterns, and extract valuable insights. By utilizing this advanced technology, our clients can conduct thorough and effective investigations, ensuring justice is served.



4DKanKan Meta for Asset Management

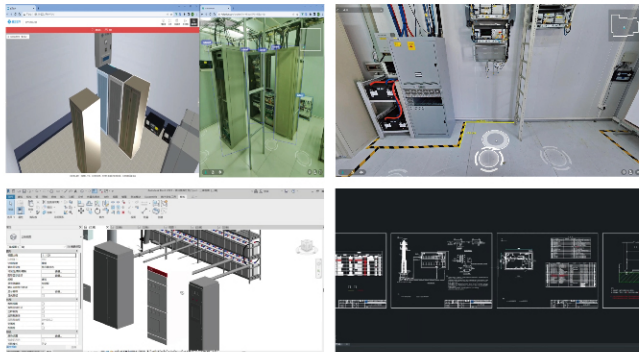
4DKanKan Meta digital twin technology offers innovative solutions for asset management, revolutionizing the way organizations track, monitor, and optimize their assets.

The 4DKanKan Meta Advantage

Revolutionize your asset management strategy with 4DKanKan Meta's game-changing digital twin technology. Eliminate inefficiencies, enhance visibility, optimize operations, and achieve exceptional ROI.



From real-time tracking to predictive maintenance and data-driven insights, our solution empowers you to extract maximum value from your assets. With 4DKanKan Meta, unlock the true potential of your assets, make informed decisions, and propel your business towards success. Don't settle for mediocre asset management—embrace the future with 4DKanKan Meta's advanced digital twin technology and experience a new era of efficiency and profitability.

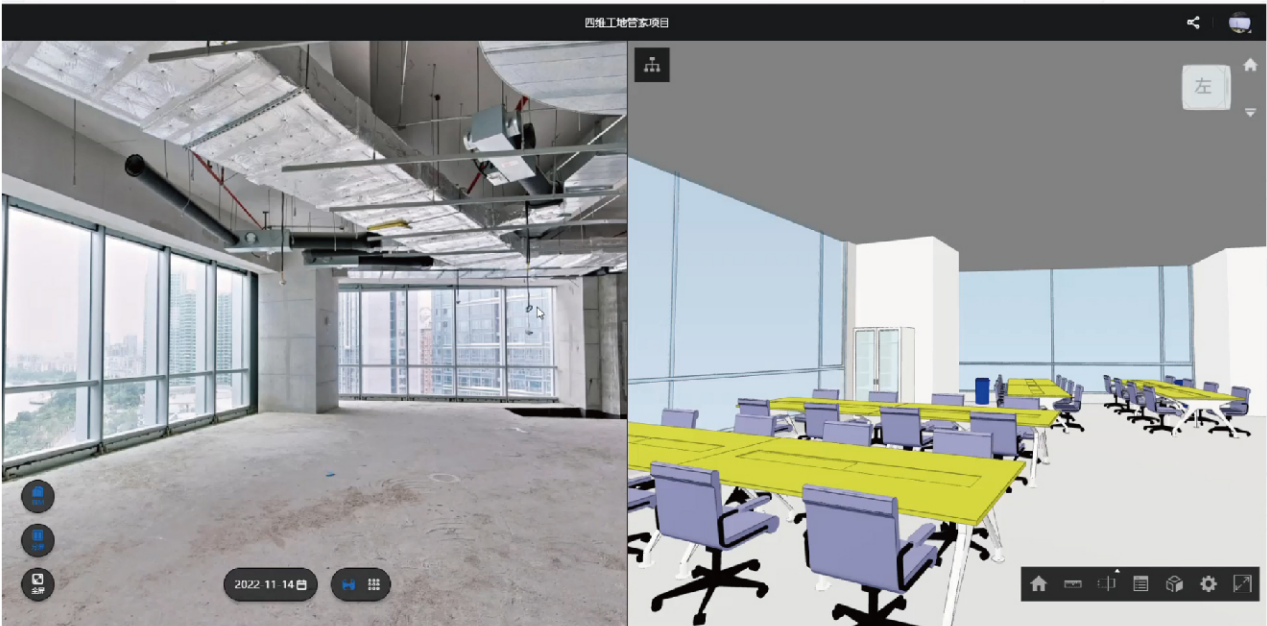


4DKanKan Meta for Architecture & Construction

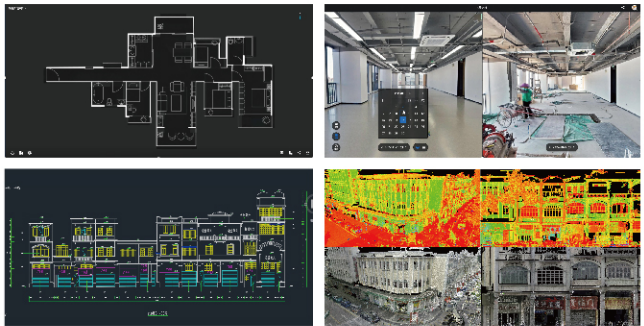
Digital management from BIM to real construction, document the key milestones accurately and objectively.

The 4DKanKan Meta Advantage

4DKanKan Meta's digital twin technology provides a robust, accurate, and efficient solution for documenting buildings and properties. It offers a comprehensive approach to streamline your construction project workflow, enabling seamless as-built creation and fostering stakeholder collaboration anytime, anywhere.



With our wearable SLAM model scanning, you can obtain a 3D point cloud and model with exceptional detail for an area of 1000 square meters in less than 30 minutes. In particular, it provides a powerful tool for construction supervision, from BIM to the construction process, especially for foundation and concealed works. You can achieve significant cost reductions in BIM modeling. Additionally, you can engage in online discussions with your partners, eliminating the need for travel and site visits.



4DKanKan Meta for Residential Real Estate

Elevates the real estate marketing with an of immersive all-in-one digital twin.

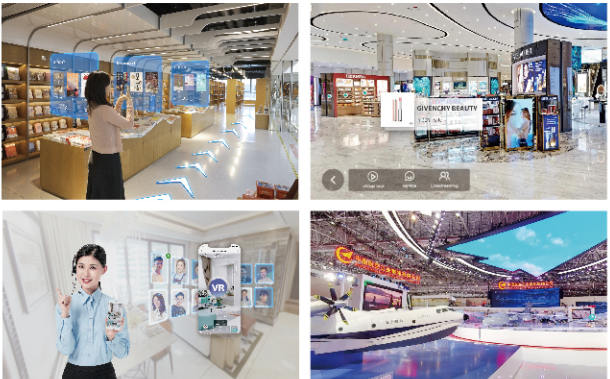
Business Pain Points

Traditional real estate marketing faces the problems of lack of exposure, loss of property details and great needs of on-site visits.



Reach more audience and elevate your listings with 4DKanKan Meta.

- High efficiency, space modeling of a 100m² property in 10 minutes.
- High resolution, detail-rich, vibrant 3D virtual tours.
- Accurate floor plans depicting layout and room dimensions.
- Rich point cloud data, precise measurement for everything.



4DKanKan Meta for Culture Digitization

Preserves and recreates historical heritage with digital tools

Business Pain Points

Traditional digital archive with oblique photography and other modeling methods are costly, lack of detail, and are not as accurate as needed.



Immersive 3D virtual tours to walk through

- HDR photography, stunningly accurate reproductions of the eyes can see
- Point cloud accuracy at $\pm 1\text{cm}$, meeting the needs of digital preservation and restoration.
- In-depth developments, bringing integrated applications of meta-universe, AR and MR technology.
- Cost-effective, an all-in-one digital twin embedded in your website without a plug-in.

