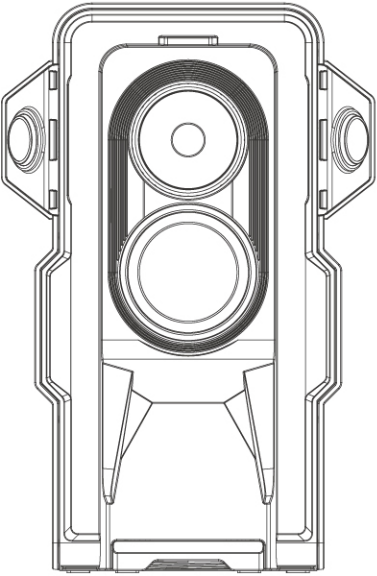
4DKanKan Meta

User Manual

V1.4



4DAGE
DIGITAL EVERYTHING

Contents

Instructions

Tutorial

4DKanKan Meta provides detailed shooting tutorials and operation tips to users. Learn more about it on the 4Dage official webiste.

eur.4dkankan.com

Notice Before Use

Users must first download and install the 4DKanKan App, register, and log in before using the 4DKanKan Meta.

1. Go to the App Store and search for “4DKanKan” or download the App from the official website.

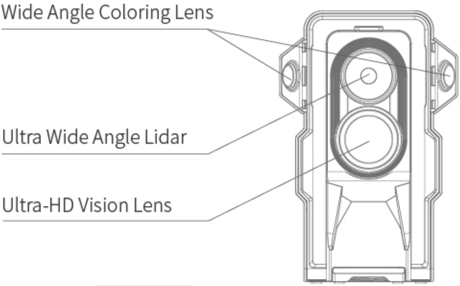
2. Sign up
Go to “Me” - “Log In/ Sign up” and create an account, according to the instructions.

3. Bind your device
After signing up and logging in, go to “Me” - “Bound scanners” - “Management” - “Bind a scanner,” scan the SN barcode at the bottom of the camera, or manually enter the SN barcode for binding. The Tours uploaded by the scanner will be synchronized to the bound account once the binding is completed.

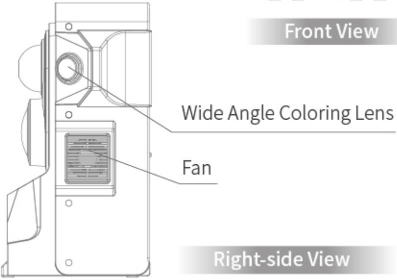
4DKanKan Meta Product Description

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

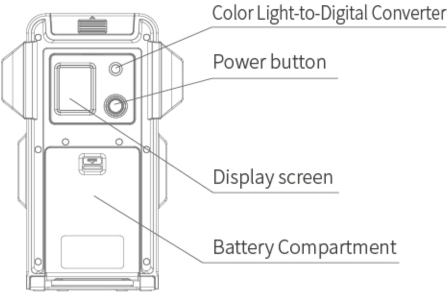
Zhuhai 4DAGE Technology Co., Ltd. designed and created the 4DKanKan Meta (hereinafter referred to as 4Dage.)



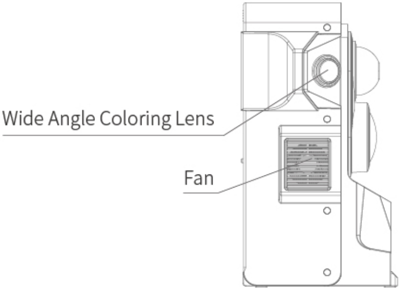
Front View



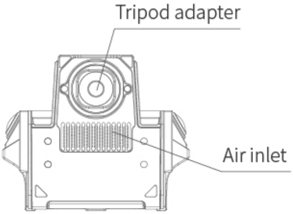
Right-side View



Back View



Top View



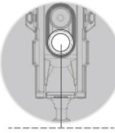
Top View

Use 4DKanKan Meta

Install and Connect

1. Install the scanner

Set the scanner tightly on a tripod and adjust the tripod’s height and angle while keeping the scanner vertical to the ground.



2. Turn on the scanner

To turn on the scanner, press and hold the power button “○” on the 4DKanKan Meta. The scanner is activated when the interface appears on the OLEDscreen as shown on the right side.

3. Connect to 4DKanKan Meta

After turning on the scanner, launch the App, navigate to the “Me” page, and search for the scanner WiFi with the prefix “4DSS_.” Then enter the passward “12345678” to connect it.

Camera Network
test-xxxx
✓ 4DAGE-xxx

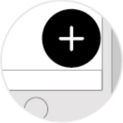
When the scanner is successfully connected, the user can return to the “Me” page, where the connection status of the scanner is displayed. The same status will be displayed on the scanner’s display screen.

Shooting Method-Site Mode

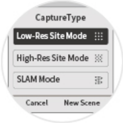
The 4DKanKan Meta scanner features an automatic metering system that automatically adjust the exposure coefficient based on the shooting conditions. And, through HDR processing, it can better show the details of the bright and dark parts of the image to present the best picture effect. It is equipped with 360° rotation shooting for six positions and the algorithm enables 16K flawless image stitching.

Workflow:

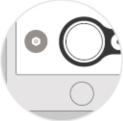
1. After using the App to connect the scanner, click on the bottom navigation bar to enter the “Local” page, and click on the “+” in the lower right corner to create a new task.



2. In the pop-up tips for photo settings, choose the shot density, then click "New scene." Then, users can create a shooting task.



3. Carry the scanner to the shooting point after creating the task, and face the scanner display while clicking the shooting button from the App.



4. The scanner will start rotation shooting after clicking the shooting button. It will rotate in six positions, at 60 degrees each. The photographer should move by following the rotation position of the scanner to avoid being captured in the frame.

In the App, the user can see a preview of the image or Tours. When the results are satisfactory, the user can move the scanner to the next point and resume shooting. The previous points must be deleted by the users if they wish to reshoot the scene.

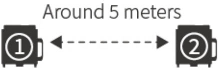
Please avoid obstructing the scanner and causing rotation angle deviation during shooting.

Shooting Schedule

Select shooting points

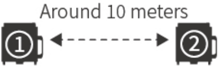
1. When shooting in low density mode

It is advised that the spacing between the points be 5 meters; the optimal point cloud effect is generated within this range.



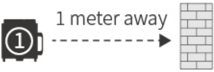
2. When shooting in high density mode

It is advised that the spacing between the points be 10 meters; the optimal point cloud effect is generated within this range.



3. During shooting, it is recommended that the scanner be one meter away from the obstruction.

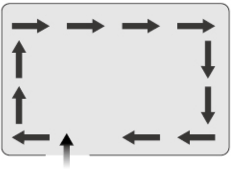
Too close proximity may compromise measurement accuracy. Being too near to the obstruction may also cause panoramic stitching issues.



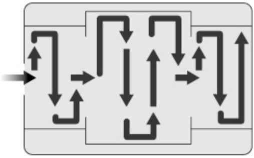
Futhermore, please avoid shooting in an environment with a lot of mirrors, as this can lead to calculation errors.

Route Planning

1. Plan your route and shoot at each point by following the route directions.



2. Please take the S route as recommended in larger spaces.



Point Adjustment Mode

This function is designed to aid in the reconstruction of Tours. When the point generated in Tours deviates from the actual position, use this function to adjust the point.

The steps are as follows:

1. Click the point setting function in the lower left corner to jump to the point setting interface.

2. The point setup interface has three function buttons: associated points, horizontal adjustment, and height adjustment. Users can adjust the points according to the actual situation to ensure that the points fit in the correct position.

Associated point: the reference point of the scanner’ s shooting point position, which aids in the position calculation. As the related point, the nearest point to the shooting point is typically chosen.
Horizontal adjustment: used to alter the last point's horizontal orientation.Height adjustment: used to alter the height of the last point.

3. Ensure that the position is correct, then click “Save” to finish

About Pickup Shots

The following is the solution for Tours that need to do Pickup shots:
Locate the Tours that need to do Pickup shots in “Local,” and then click “…” -> “Continue Shooting.” Enter the “Shooting Project,” then click the “⊙” in the lower-left corner to activate the “Point Adjustment Mode,” and then click the point closest to the selected shooting area. Click the shooting point, set it to the associated point, and then click the "Save" button in the upper right corner; the distance between the added and shooting points should be less than 5M.

The camera’ s workflow is derived from the recognition of the point cloud in space. If the previous point cloud cannot be recognized at the newly added shooting point, the newly added point’ s calculation may fail. The following are examples of common blunders: there is no location point anchoring in the Pickup shots, and the anchor point is far away from the first point of the Pickup shots.

SLAM

SLAM, which stands for simultaneous localization and mapping, automatically calculates and stores the spatial position of the scanner at the time of scanning.

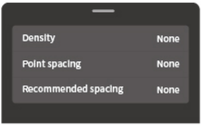
Workflow:

1. Users can view SLAM status information in the interface for shooting scenes, and SLAM“ ” will be displayed in gray by default when creating or continuing a scene.

2.After successfully shooting the first point, the SLAM icon and distance will change as the scanner is moved to the next point.

The distance between the scanner and the associated point is the SLAM distance.

3. Users can view the current scene's shooting density and point spacing by clicking the “ SLAM 20m ”.



Density	None
Point spacing	None
Recommended spacing	None

Recommended Shooting Spacing:

Low density	High density	Status
< 10M	< 20M	SLAM (Green)
10-15m	20-30m	SLAM (Yellow)
> 15M	> 30M	SLAM (Red)

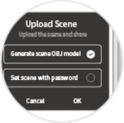
Green: indicates the optimal shooting range for the scanner.
Yellow: indicates that the scanner is in an unstable shooting range and that a calculation error is possible.
Red: indicates that the current position of the scanner is far from the previous point, the probability of error is high, and shooting is discouraged.

Save and Generate 3D Tours

1. After shooting all of the points, the user should click "Save" in the upper right corner of the shooting frame, then follow the prompts to add a description before clicking "Save" again to save the data to the local terminal. The App will then navigate to the Tours section (Shown on the right).

2. Press and upload button " ⬆ " if the camera is not connected to the internet, the network interface will appear. Connect to the Wi-Fi network using the Wi-Fi interface. Once the connection is established, return to the "Local" page.

3. When the user clicks the " ⬆ " button again, they have the option of setting the Tours access password or not. Then, click Confirm to upload the Tours data. When a user uploads Tours data to the cloud, the point cloud data is automatically generated.


Upload Scene
Upload the scene and share
Generate scene OBJ model ✓
Set scene with password ○
Cancel
OK

After the calculation is complete, the scene will appear in the "cloud" interface; click to open the scene or log in to the official 4DKanKan website - Personal Center - My Tours to view.

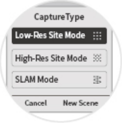
OBJ Model: After selecting generated OBJ model, the generated scenes support viewing OBJ models and downloading OBJ-formatted data files.

Shooting Method-Site Mode

Shooting Method-SLAM Mode equipped with 905nm ultra-wide-angle LiDAR and combined with the industry's leading pointcloud fusion algorithms,4DKanKan Meta can produce high-precision point cloud data, with a point cloud accuracy of 2cm.

1.After using the App to connect the scanner, click on the bottom navigation bar to enter the “Local” page, and click on the “+” in the lower right corner to create a new task.

2. In the pop-up tips for photo settings, choose the shot density,then click "SLAM Mode"Then,users can create a shooting task.



3. Carry the scanner to the shooting point after creating the task, and face the scanner display while clicking the shooting button from the App.

4.After clicking the Start button, the camera will turn on SLAM mode for scanning. During the scanning process, the APP shooting interface will display the point cloud data collected by the camera.

5.During shooting, the user should keep the camera steady and moving at an even speed. The camera should always be facing the direction of the user to avoid interfering with the data collection. You can switch 2D or 3D viewpoints in the app to check the situation of the collected point cloud.

Shooting Guidelines

(1)When shooting, the user needs to plan the shooting route in advance, avoid or remove obstacles on the route to prevent obstruction or interference.

(2) During camera movement, the user should maintain an even pace, with a maximum speed of 1.5m/s.

(3) When moving the camera, ensure that the rotation of the camera body does not exceed 50 degrees per second.

(4)When the user moves the camera during the shooting process and needs to pass through a door, please ensure that the door is open and still to avoid impacting the shooting outcome.

(5) Do not force quit or close the APP during the shooting process.

(6) The estimated path for SLAM capturing is 15 kilometers, please kindly consider the acquisition route's distance.

Shooting Panoramas

During the scanning process in SLAM mode, the camera is supported to take panoramas using high quality point cloud + HD lenses to achieve the triple function of photography, recording and localization, providing users with more comprehensive on-site data to ensure the accurate representation of the reality by the point cloud.

1.After creating a shooting task in SLAM mode and clicking the Start button in the shooting interface, the user can move the camera for SLAM scanning.

2.When moving the camera to shoot, the user should observe the scene, ensure the camera lens remains still and stable, and focus the camera on the scene details to be captured. Click the shooting button "◉" located in the lower right corner of the shooting interface.

3.After clicking the Start button to start recording, the camera will rotate clockwise, turning the camera 60 degrees once for a total of 6 times to complete the shooting of a designated point.

4.After shooting, the user can preview the shooting result in the shooting interface. If the result is satisfactory, the user can continue to move the camera for SLAM scanning.

Pickup Shots

The following is the solution for Tours that need to do Pickupshots:

1.Locate the Toursthat need to do Pickup shots in "Local"and then click "..." -> "Continue Shooting" ;

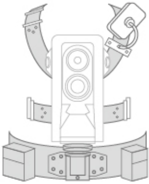
2.Enter the "Shooting Project" then click the"◎" in the lower left corner to activate the "Point Adjustment Mode," and then click the point closest to the selected shooting area. Click the shooting point, set it to the associated point, and then click the "Save" button in the upper right corner;

3.The distance between the added and shooting points shouldbe lessthan 1M.

4.After the shooting is completed, you can move the camera to pickup shots of the SLAM tours.

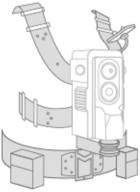
Shooting Panoramas

The Portable SLAM
Backpack (henceforth "Backpack") is designed to aid the mapping expert in utilizing the 4DKanKan Meta scanner to capture SLAM tours. It enables one-person operation of sweeping SLAM tours while walking, provides real-time access to high-precision three dimensional point cloud data, decreases acquisition costs, and enhances scanning efficiency.

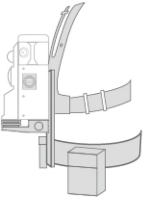


The following are workflows:

1. The mapping expert secures the backpack to the shoulder, then modifies the shoulder and waist safety harnesses to conform to the individual's physique, guaranteeing a secure fit and minimal vibration of the backpack. Subsequently, all hooks and buckles are securely fastened.



2. Proceed to position the scanner at the backpack buckle smoothly. Ensure that the scanner is aligned with the backpack buckle, and then secure the buckle by twisting it inward at its base.
Before commencing the operation, ensure that the scanner will not collapse.



3. Confirm that the scanner has been effectively installed before shooting SLAM tours.

4DKanKan Meta (Offline Version)

Product Description

4DKanKan Meta (Offline Version) facilitates installing the 4DKanKan Meta system on designated servers, enabling the concurrent use of multiple terminal devices in client/server mode within a shared local area network (LAN) while remaining connected via an independent private network.

For details of the product description of 4DKanKan Meta (LAN version), please refer to the 4DKanKan Meta product description on page 2 and 3.

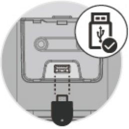
Install and Connect

For detalis on using the 4DKanKan Meta(Offline Version), Recording shooting method-site mode and shooting method-SLAM mode, follow the procedures for “Install and Connect”、"Shooting Method-site Mode" and "Shooting Method-SLAM Mode" on pages 4 to 12.

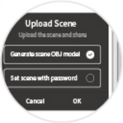
Save and Upload to the USB Disk

1. Once all points have been captured, click the "Save" button in the upper-right corner of the shooting interface, and then click "Save" a again after entering the project information as instructed. Users can then save the 3D data locally, and the App will navigate to the list of local tours (as shown on the right).

2. Insert the USB disk of the current scanner into the type-c port at the bottom of the scanner, and then click the USB disk interface to verify that the USB disk link has been mounted successfully.



3. To begin uploading scene data, users can select "Generate OBJ Model" and "Set access password" in the pop-up upload box from "Local" by taping "⬆", and then clicking "Confirm." Users can examine the file on a USB drive once the upload is complete.


Upload Scene
Upload the scene and share
Generate scene OBJ model ●
Set scene with password ○
Cancel
OK

4. Users can synchronize scenes for editing, calculation, etc. after taking the USB disk drive and connecting it to a computer.

OBJ Model: After selecting generated OBJ model, the generated scenes support viewing OBJ models and downloading OBJ-formatted data files.

4DKanKan Meta (LAN Version)

Product Description

4DKanKan Meta (LAN Version) facilitates installing the 4DKanKan Meta system on designated servers, enabling the concurrent use of multiple terminal devices in client/server mode within a shared local area network (LAN) while remaining connected via an independent private network.

For details of the product description of 4DAGE META (LAN Version), please refer to the 4DKanKan Meta product description overview "Front View "、"Right-side View"、"Back View"、"Left-side View" and "Top View" on page 2 and 3.

Contact us at 400-669-8025 for further details.Messages can also be sent to sales@4dage.com.Zhuhai 4Dage Technology Co., Ltd, carries out the manufacturing and design of 4DKanKan Meta.

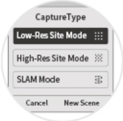
Install and Connect

For detalis on using the 4DKanKan Meta(LAN Version),Recording shooting method-site mode and shooting method-SLAM mode,follow the procedures for "Install and Connect"、"Shooting Method-site Mode" and "Shooting Method-SLAM Mode" on pages 4 to 12.

RTK (Specific models)

RTK is a technique for dynamic relative positioning in real time using carrier phase observations. Users can acquire a 4DKanKan Meta equipped with RTK functionality based on their own requirements. The RTK application based on the BeiDou Satellite Navigation System employs strong encryption and is trustworthy and secure.

Workflow：



CaptureType

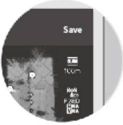
Low-Res Site Mode

High-Res Site Mode

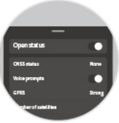
SLAM Mode

Cancel　New Scene

1. When users create a new scene, they can choose whether to enable GNSS in the pop-up window for shooting settings; once enabled, the scanner will receive GNSS status in real time.



2. In the top right corner of the "create new scene" interface, users can view the current status of the GNSS, HRMS, and VRMS " FIXED HNA VNA ". If the GNSS status is altered, the APP will issue a voice prompt indicating the new status.



Open status

GNSS status　None

Voice prompts

GPRS　Strong

mber of satellites

3. To access the current scene's RTK data, click " FIXED HNA VNA " in the shooting screen.

GNSS：Global Navigation Satellite System
HRMS：Horizontal Root Mean Square
VRMS：Root Mean Square Voltage

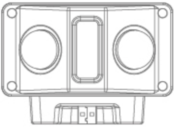
RTK Status

(1) NONE NONE
(3) FLOAT 09 FLOAT
(2) SINGLE 09 SINGLE
(4) FIXED 99 FIXED

When shooting outdoors, it is recommended to ensure that the RTK status is "fixed," which will improve the accuracy of scene data.

Fill light (optional plug-in)

To increase work efficiency, utilize the fill light with the acquisition in a low-power, high-brightness environment.



Fill light status description

(1) NONE ON
(2) CLOSED OFF

Overview of API and SDK Developer Tools

Developers can utilize the API and SDK tools provided by 4DAGE to improve the usability of the tour space and data. Principal applications of these tools include:

1. Customising and expanding our 3D player
2. Integration with solutions, APIs, and third party software.

SDK

The SDK permits the modification of our 3D player in order to improve the user experience. The application is a WebGL application that enables web browser navigation in three-dimensional space.

1. Include supplementary material or enhancements
2. Modify point designs and icons
3. Adjust the height configuration of markers in VR mode

Kindly be informed that the SDK is exclusively located on the client side. The information is not transmitted to our database and lacks exceptional
durability (unless it is stored or recorded in the client).

Learn more about SDK:
https://docs.4dkankan.com/#/en-us/guide/quickstart

API

Connecting a user's back-end system to ours via the 4DAGE API establishes a direct system-to-system connection, allowing users to exchange data and execute operations on spaces in our system. These operations and data modifications are persistent, in contrast to the SDK, because they are executed directly in our data store via the API.

The API provides a variety of functionality, including but not limited to:
1. Conducting searches and queries for models and model information.
2. Acquiring image data, panoramic and video data.
3. Acquiring tour lists, tour points, tour editing, etc.
4. Modify labeling data for tour images.

Learn more about API:
https://docs.4dkankan.com/#/product/openapi/en-us/apis

Label notices host equipment

The following warning notice must be affixed to the certified device in case the device contains transmitters which operate in the 5.15-5.25 GHz and 5.25-5.35GHz frequency bands. Operation of the radio equipment in these frequency bands is restricted to indoor use only.

Translation:“5.2/5.3 GHz band is restricted to indoor use due to the Radio Law.“

FAQ

What is the difference between a 4DKanKan Meta and a panoramic camera?

A panoramic camera captures and outputs panoramic images or videos, whereas the 4DKanKan Meta captures and generated point cloud data and panoramic images.

Point Cloud Data VS Panoramic Image

Each point cloud in the point cloud data contains spatial coordinate information, which can be used to calculate the distance, area, volume, etc. between the point clouds. Panoramic images are images devoid of spatial structure information and can only be displayed.

Disclaimer

(1) Copyright declaration

Users must understand and acknowledge that the exhibition and use rights of works created with 4DAGE are shared by the user and 4DAGE once the user voluntarily uploads the works (video, music, pictures, etc.) to 4DAGE’ s official website.

(2) Limit of liability

To the greatest extent permitted by applicable law, 4DAGE shall not be liable for any direct, indirect, or consequential damages resulting from users’ copying or downloading of the information or materials contained in 4Dage’ s user manual.

How accurate is the 4DKanKan Meta?

4DKanKan Meta is equipped with three 905nm LIDAR that can collect 300K point cloud per second and 2 million point cloud at a single point, with a point cloud precision of ±1 cm and a 16k resolution for the panoramic images collected.

How do users view the 3D Tours using VR headsets?

Select "VR mode" in the upper right corner of the generated 3D Tours on the user's phone. Users can leave their phones in the appropriate VR headsets to enjoy spectacular visualeffects.

About Account

4DKanKan Meta has been set up as a “Scanner Account"

and a "User Account" to assist users in getting started quickly. The term “Scanner Account" refers to the scanner’ s initial account from the factory. Users can connect to the scanner’ s WiFi via the App or scan the QR code on the official website's login page. The scanner account can be used to manage Tours.

"User Account" refers to a user account signing up in the App or the official website. Users can log in using their username and password. Users can enjoy all of the benefits by purchasing Membership Subscription after linking their account to a scanner’ s SN number.

What device can be compatible with the 4DKanKan Meta?

4DKanKan Meta requires IOS 11.0 or later to be compatible with iphone 15/15 Pro/15 Pro Max, iPhone 13/13 Pro/13 Pro Max, iPhone 12/12 Pro/12 Pro Max, and iPhone XS Max.

The Android version of 4DKanKan Meta App requires the following configuration or above:

1. Processor: Snapdragon 6 series 655 or above, Snapdragon 8 series 820 or above, Kirin 710 or above.
2. System requirements: Android 8.0 (64-bit OS), we recommend 10.0 or above.
3. RAM: 8GB or above.

About Diverging Paths Shooting

Diverging paths shooting implies that after completing the first path shooting during the process, the user must return to a previous point and shoot another path. Diverging paths shooting necessitates the use of the "Point Adjustment" feature.On the "Project" page, open the "Point Adjustment Mode" by clicking the " ◉ " in the bottom left corner. And click the point closest to the selected shooting area. Click the shooting point, set it to the associated point, and then click the "Save" button in the upper right corner to get back to the shooting page.

About Exposure

Please avoid shining direct sunlight on the lens, as this will result in overexposure. Furthermore, overexposure is also more noticeable in darker indoor environments.

About the Charging Procedure

Please ensure that the scanner has sufficient capacity during shooting to ensure the best possible performance. We do not recommend that the user use the scanner while it is chatging. When the battery is fully charged, the scanner will shut down automatically.

Notes on Long-term Storage

In order to prevent battery electrode passivation, which reduces battery life, it is recommended to charge the scanner once per month for at least five minutes.

Others

How long does it take for the modeling calculation to be processed after it is uploaded?

Take an indoor or outdoor Tours with 8 points separated by 5 meters as an example. After shooting, it takes around 40 minutes from uploading to completion of calculation. Nonetheless, if multiple users upload the computation at the same time, the server will do the calculation in the order of priority.

Where is the data kept?

1. 4DKanKan Meta's data is kept on the cloud servers.
2. 4DKanKan Meta's (Offline Version) data is kept on the computer.
3. 4DKanKan Meta's (LAN Version) data is kept on the servers.

Is it possible for 4DKanKan Meta to perform 3D reconstruction on objects?

Rather than small objects , our scanner is mainly used to reconstruct space.

What are the Tours’ specific restrictions?

The maximum points is 500 while shooting at low density and 100 when shooting at high density.

Is it possible to edit the Tours after the calculation?

Once the model has been uploaded, the user can download it to local, make changes, and then re-upload it when they are satisfied.

Can the 4DKanKan Meta measure spatially?

It is, indeed, supported. By clicking on the measurement tool, users can begin measuring the spatial.

Can users obtain model data and upload it to their own web?

User can log in to the PC terminal and navigate to "My Tours," then click the "↗" in the upper right corner to initiate the embedded production. Then, to implement it, users can copy the code from the embedded link code and embed it into their own website.

Post-sales Service

Terms of Service

Buyers who purchased 3D scanner (hardware) through 4Dage's official online channels (4Dage's official website) are eligible for warranties.

Hardware Warranties

(1) Terms of hardware warranties

1. Beginning with the second day after receipt, if a functional failure due to non-human damage occurs within seven days and is verified by 4DAGE, the user may return, exchange it for the same model with the same specifications or repair it for free.

2. Beginning on the second day after receipt, if a functional failure occurs due to non-human damage between the eighth and fifteenth days and is verified by 4DAGE, users may exchange it for the same model with the exact specifications or repair it for free.

3. If a functional failure occurs due to no-human damage within one year of receipt and is verified by 4DAGE, the user is entitled to free repair service.

4. Calculating from the date of receipt, if a functional failure occurs due to non-human damage within one year and the scanner is unable to perform well after two repaires. Users can select free repair or contact customer service using the effective repair record provided by the repairer in the warranty card to see if it can be exchange it for the same model with the exact speifications or return it.

(2) Limited hardware warranty

4DAGE will not provide warranty

1. The warraty has expired;
2. The user' s failure to use, preserve, or maintain the product in accordance with the product manual causes the damage;
3. The damage is caused by misuse, such as falling, squeezing, or immersion in water;
4. The damage is caused by force majeure such as floods, fires, and lightnung strikes;
5. Machines repaired by non-official website designated service providers;
6. The failure or accident is caused by using non-original accessories;
7. The scanner was not purchased through 4DAGE' S official channel, and any of the models, serial numbers, or manufacturing numbers on the product have been changed, deleted, relocated, or cannot be identified;
8. The warranty only covers the hardware. All accessories, including software, CDs, and user manuals, are not covered by warranty;
9. Any damage or scratches on the product' s appearance will not be eligible for the return or replacement service.

(3) Return and refunds

1. Contact the customer service department using the phone number or email address listed on the official website;
2. Once the inspection personnel has confirmed that it can be returned or exchanged, the entire set of products (including gifts) and invoices should be mailed or delivered to 4DAGE;
3. 4DAGE will handle the case in accordance with the product maintenance list;
4. The user should pay for the shipping costs associated with the return. If the user does not pay the shipping cost, it will be deducted from the refund amount at the current rate. The refund path is identical to the payment path. the refund' s arrival time is determined by the bank and payment institution.

Repair Service

(1) About paid repair

4DAGE offers qualified paid repair services for products that have been accidentally damaged, are out of warranty, or do not meet warranty

(2) Paid repair service

1. Be patient when contacting the customer service department via the phone number or email address listed on the official website;
2. Please make payment after confirming the repair content and cost with maintenance personnel;
3. Ship the product to 4DAGE Co.,Ltd. for repair.

Disclaimer

(1) Copyright declaration

Users must understand and acknowledge that the exhibition and use rights of works created with 4DAGE are shared by the user and 4DAGE once the user voluntarily uploads the works (video, music, pictures, etc.) to 4DAGE’ s official website.

(2) Limit of liability

To the greatest extent permitted by applicable law, 4DAGE shall not be liable for any direct, indirect, or consequential damages resulting from users’ copying or downloading of the information or materials contained in 4Dage’ s user manual.

Specifications

Image Resolution	16K（16384 x 8192)
Image Size	5472 x 3648
Function	Site Mode and SLAM Mode

Wavelength	905 (nm)
Laser	Class 1 (in accordance with IEC 60825-1:2014)
Operating Range	0.2-70m
Frame Rate	10Hz(typical value)
Accuracy	Site Mode：±1cm SLAM: ±2cm
Battery Capacity	5000(mAh)
Voltage	14.4V
Battery	2.5 h
Operating Temperature	-5℃～45℃
Dimensions	258mm*169mm*141.5mm
Weight	2.9kg

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Follow 4DAGE Official Account by scanning the QR code down below

4DKanKan Meta