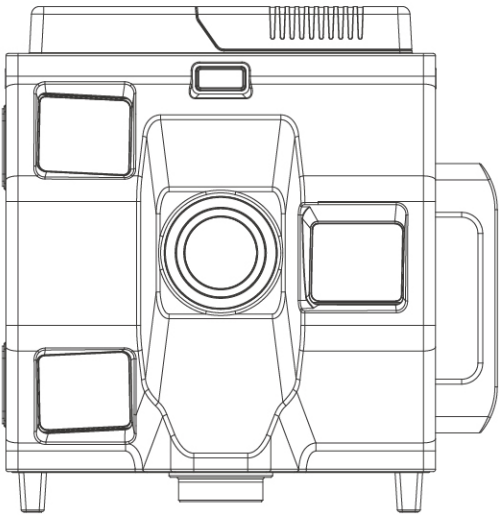
4DKanKan Mega
User Manual

V1.6



4DAGE
DIGITAL EVERYTHING

Instructions

Tutorial

4DKanKan Mega 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 Mega.

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.

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Product Description

The 905nm LIDAR's ultra-high accuracy scanning can collect up to 260m of modeling range with a single point scan. It can also produce 16K HD images and centimeter-level point cloud precision, which are widely used in the construction, water conservation, emergency, energy, museum, and BIM industries, among others.

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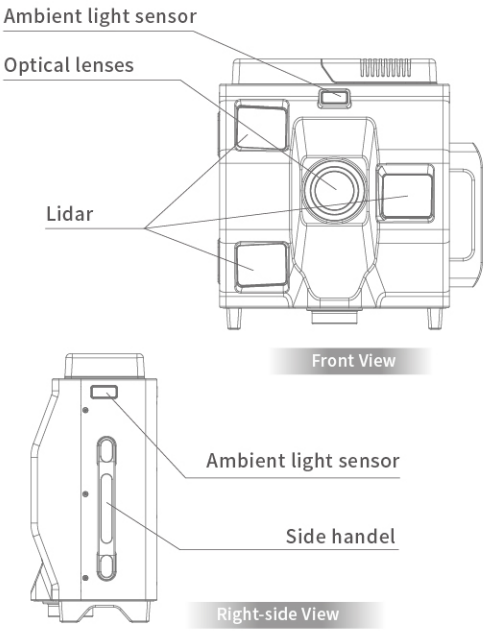

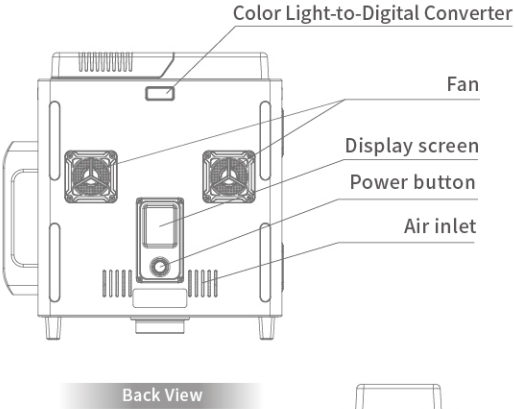

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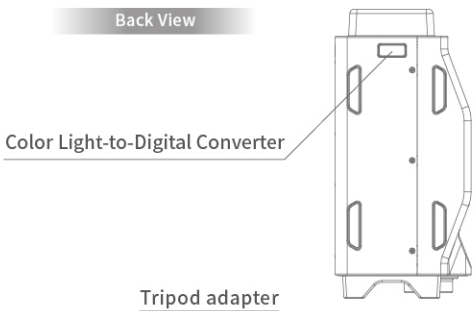
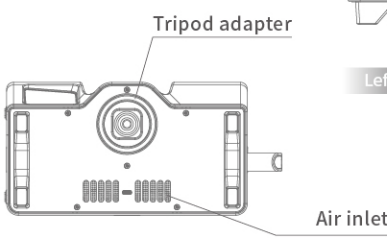


Left-side View



Top View

Use 4DKanKan Mega

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 Mega. The scanner is activated when the interface appears on the OLEDscreen as shown on the right side.

3. Connect to 4DKanKan Mega

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 password "12345678" to connect it.

When the scanner is successfullyconnected, 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 Modes

The 4DKanKan Mega scanner features an automatic metering system that automatically adjust the exposure coefficient based on the shooting condictions. 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.

If the scanner supports RTK setup, users can toggle the CNSS status on or off.

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.

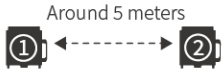
Please avoid obstructing the scanner and causing rotation angle deviation during shooting.

Shooting Schedule

Select shooting points

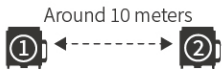
1. When shooting in low density mode

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



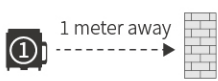
2. When shooting in high density mode

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.

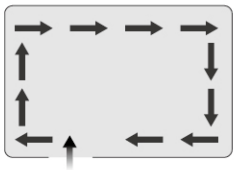
Too close proximity may compromise measurement accuracy. Being too near to the obstruction may also cause panoramic stitching issues.



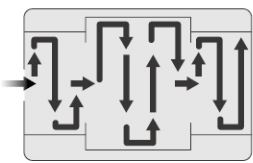
Futhermore, please avoid shooting in an environment with a lot of mirrors, as this can lead to calculation errors.

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

RTK (Specific models)

RTK is a technique for dynamic relative positioning in real time using carrier phase observations. Users can acquire a 4DKanKan Mega 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:

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

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

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

CNSS: Compass Navigation Satellite System
HRMS: Horizontal Root Mean Square
VRMS: Root Mean Square Voltage

RTK Status

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

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

SLAM

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

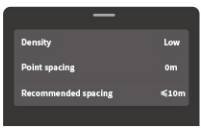
Workflow:

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 “ ”.



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.

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.

4DKanKan Mega (Local Version) Instructions

Tutorial

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

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Notice Before Use

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

1. Step 1:
Copy the 4DKanKan application installation package to your phone's file directory and run the installation.

2. Step 2:
Please use the official QR code provided to scan and install the code.

Product Overview

The 905nm LIDAR's ultra-high accuracy scanning can collect up to 260m of modeling range with a single point scan. It can also produce 16K HD images and centimeter-level point cloud precision, which are widely used in the construction, water conservation, emergency, energy, museum, and BIM industries, among others.

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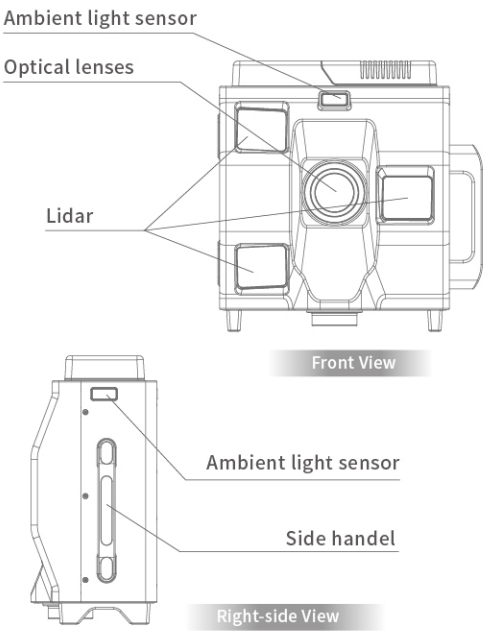
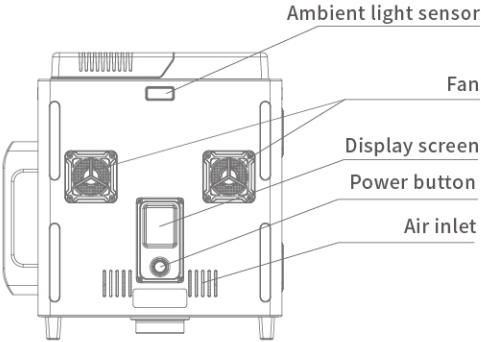
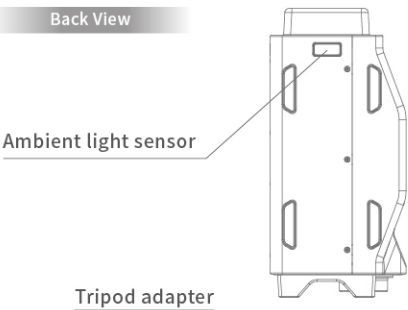
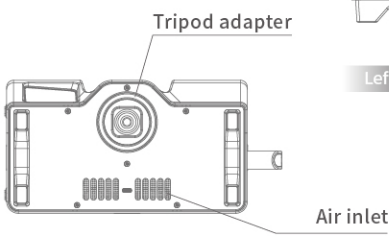




Back View



Left-side View



Top View

Use 4DKanKan Mega (Local Version)

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 Mega. The scanner is activated when the interface appears on the OLED screen as shown on the right side.

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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 password "12345678" to connect it.

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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.

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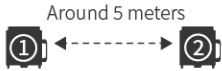

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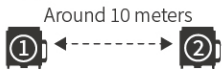

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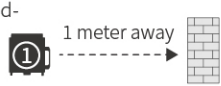

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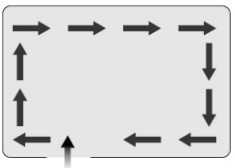

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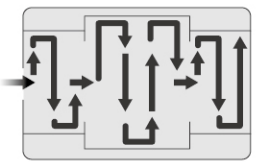

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3. Ensure that the position is correct, then click “ save ” to finish.

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Workflow:

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

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

CNSS：Compass Navigation Satellite System
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RTK Status

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

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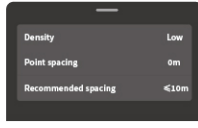

Recommended Shooting Spacing:

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 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.

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.

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.

FAQ

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

A panoramic camera captures and outputs panoramic images or videos, whereas the 4DKanKan Mega 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.

What is the difference between a 4DKanKan Mega and traditional 3D modeling equipment?

The traditional 3D modeling equipment necessitates a high level of professional skill on the part of the operator, as the scanning environment also has specific requirements. For post-modeling data processing, more complex professional software is also required.
4DKanKan Mega uses algorithms based on artificial intelligence to generate 3D Tours automatically and without human intervention. Users with no professional background can also operate it efficiently after reading the manual.

How accurate is the 4DKanKan Mega?

4DKanKan Mega 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 Mega 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 Mega?

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

The Android version of 4DKanKan Mega 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 Mega's data is kept on the cloud servers.
2. 4DKanKan Mega's (Local Version) data is kept on the computer.

Is it possible for 4DKanKan Mega 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.

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 Mega 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	Shoot
Function Description	A 360° rotation shooting achieves data generated on six sides, with HDR support.
Storage	128G
Sensor	1 inch sensor (2.54cm), with Aperture in f/3.2
Lidar	3 Lidar/ Point Cloud: ±1 cm
Lens	FOV x 1 Horizontal: 85.06° / Vertical: 133.11° Diagonal: 173.4.11°
Camera Body	Size: 312*305*146.5mm
Type of Device Interface	Type-C 3.1(Data Transmission)
Battery Capacity	9700mAh
Voltage	14.4V

Contact us

Hotline（Mainland China）：400-6698-025

Email（Global）：service@4dage.com

Business Cooperation

Hotline: 0756-6996796 / 6996791
Email: sales@4dage.com

Publicity

Email: pr@4dage.com
eur.4dkankan.com

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

4DKanKan Mega