4DKanKan Meta Technical Specifications

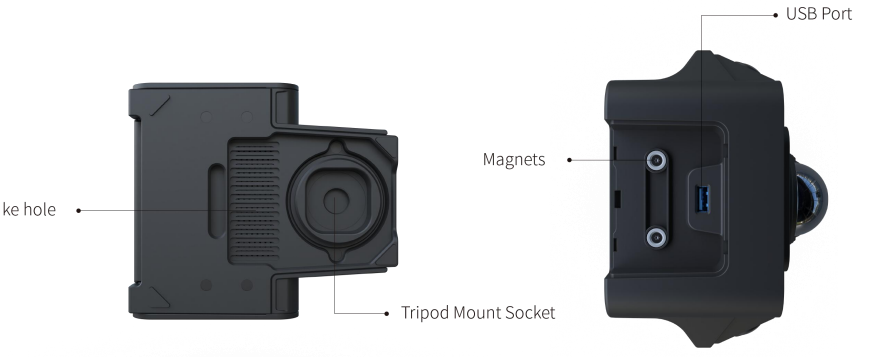
1. Preface

In 2023, 4DAGE launched a new laser mapping camera - 4DKanKanKan Meta, based on the in-depth research and development of 4DKanKan Mega, and the lightweight design of 4DKanKan Mega. It is also applied in many fields, such as urban mapping, digital factory, commercial real estate, underground space, ancient building protection, fire fighting and fire adjustment, etc. Compared with 4DKanKan Mega, 4DKanKan Meta can cover more business scenarios due to its small size and light weight.

2. Product Description


Camera Top Cover
Display
Light Sensor
Power Button
Battery Compartment


Camera Top Cover
Display
Light Sensor
Wide-angle Coloring Lens
Power Button
Heat Vent
Battery Compartment


USB Port
Magnets
ke hole
Tripod Mount Socket

3. Technical Specifications

Product Name		**4DKanKan Meta**
Device Type		Stationary and Mobile 3D Laser Scanner
Imaging	Camera Len	85.06° H / 133.11° V / 173.4.11 D
	Pano FOV	360° H / 267° V
	Image Sensor	1-inch CMOS × 1 1/2.8-inch CMOS × 2
	Single Lens Resolution	5472×3648 (20MP) 2592x1944
	Panorama Resolution	16384×8192 (134.2MP / 16K)
	Scan Distance	>0.6m
	Distance between Scan Points	Stationary Scanning Low Density: 1.5-15 meters High Density: 1.5-30 meters
	Output Format	JPEG
	ISO	100-1600
	HDR	Automatic only
	Color Temperature Adjustment (White Balance)	Automatic only
	Exposure Compensation	Automatic only

Scanning	Laser	Class 1 (in accordance with IEC 60825-1:2014)
	Wavelength	905nm
	Pano FOV	360° H / 320° V
	Scan Range	0.2m-70m
	Scan Speed	200,000 points/s
	Number of Points per Scan	Low-density: 2M points per scan High-density: 8M points per scan
	Point Cloud Accuracy	1σ (@ 20m) ≤ 1 cm 1σ (@ 0.2~1m) ≤ 2 cm
	Scan Resolution	2 levels of adjustable settings
	Auto Tilt Correction	Support
Capture Speed	Stationary Scanning	High density: 80s Low density: 37s
	SLAM	1m/s
Scan Points	In a Single Project	Maximum 100 scan points in high density mode, 500 scan points in low density mode
Scanning floors	Maximum number of floors	99
Scanning Area Range	Stationary Scanning	Up to 500 scan points in a single project, project size depends on the actual situation, support project merging
	SLAM	Supports scanning up to 1,500 m

Plug-in Module	Infrared Thermal Imager	Model: DS-2TD2067T-6/X
	GNSS Receiver	4DKanKan Meta RTK Module
	Light	Color Temperature: 5600K; Brightness: approximately 360lx at 2 meters; Power: 30W
Data Storage	Memory	128GB
	Data for a single point	80-150MB (including depth data 1MB, panorama 38-40MB, point cloud 30-50MB)
Battery	Battery Type	lithium Rechargeable Battery
	Voltage/ Capacity	14.4V / 5000mAh
	Battery Duration	Up to about 4 hours for continuous scanning (Two replaceable batteries included in Standard Kit)
	Charging Method	USB PD 45W (Type-C 2.0)
	Battery Charge Time	About 2 hours
Wireless Communication	Data Transfer	Wi-Fi
	Wi-Fi	Wi-Fi 802.11a/b/g/n, 2.4/5GHz
		Module: ap6256
		Maximum Wi-Fi range 10m
	Bluetooth	16k 16bit AAC (currently this feature is

		hidden)
	APP	4DKanKan
Dimensions	Dimensions (H*W*T)	258mm x 169mm x 141.5mm
	Weight	Approx. 2.9 kg (including battery)
Temperature	Operating Temperature	-5℃ to 45℃

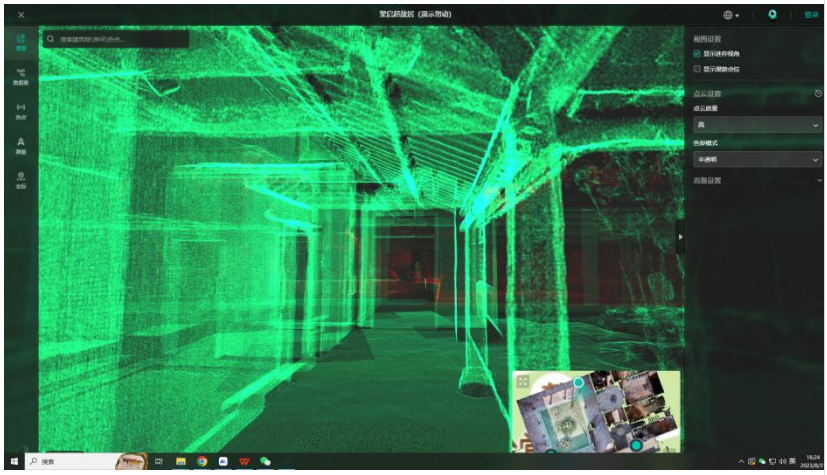
4. Software Features

3D Model	Generate 3D models automatically, export model in .obj format
Image	Support 16k panorama download
Virtual Tour	Support virtual tour, you can set the automatic tour, add video, audio guide and other functions.
4X Magnification	Support 4X image magnification in virtual tour

Function Name	**Function Screenshot**

AI algorithms enable spatial reconstruction

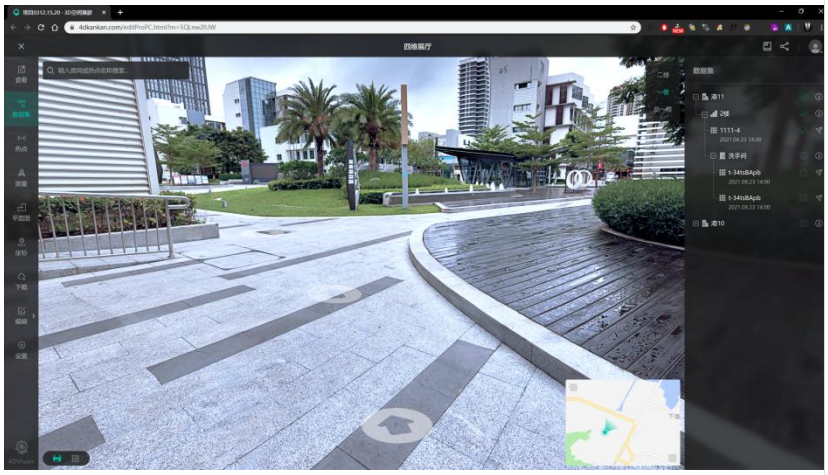
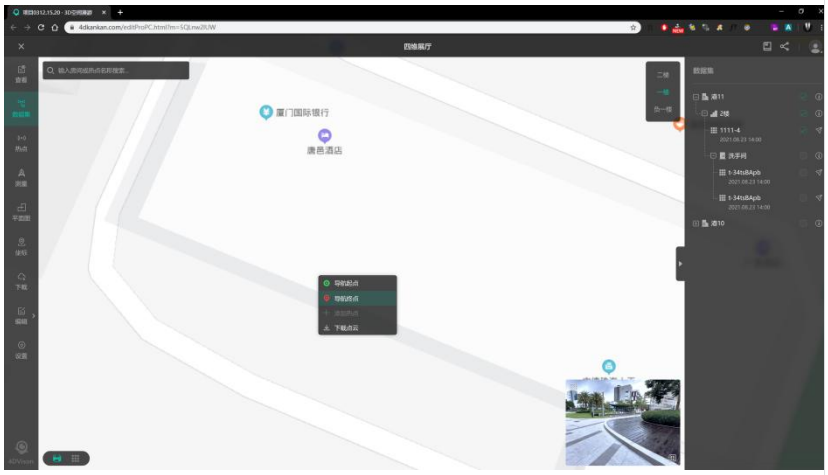
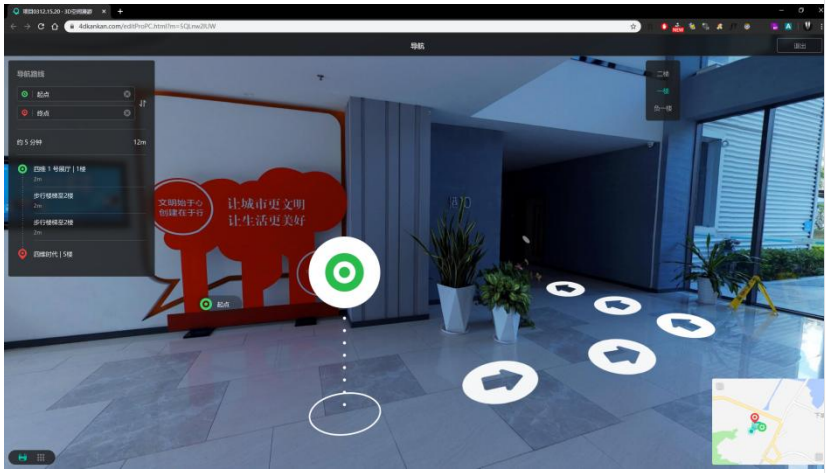
4DKanKan Meta uses self-developed artificial intelligence algorithms to assist laser positioning, making the spatial model more accurate and capable of generating precise and high-quality point clouds with a point cloud accuracy of +1cm.



Scanning

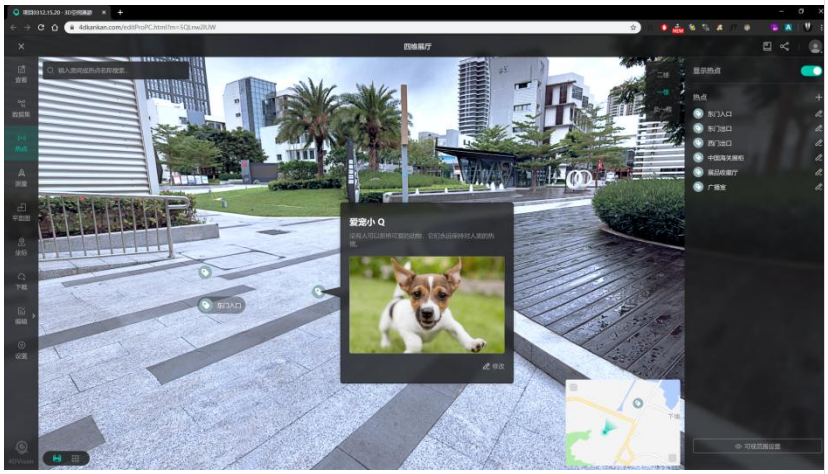
1. Download and install the APP to control the 4DKanKan Meta;

2. Preview the captured data in real time.

After Scanning	
View 1. View the panoramas; 2. Walk through the virtual tour or point cloud project; 3. Search for rooms/areas/tags	
Zoom in on the mini map As you walk around a project, you can locate yourself in real time on Google Maps.	
Navigation Navigation in the project without GPS	

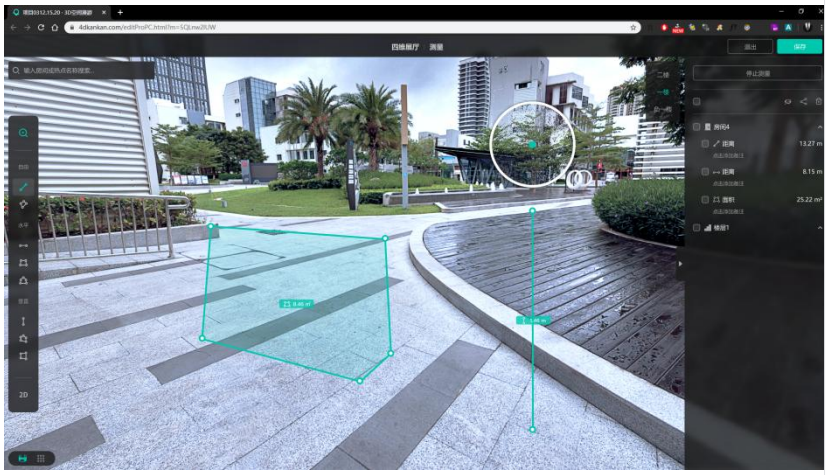
Hotspots / Tags

Add pictures, videos, music to the project



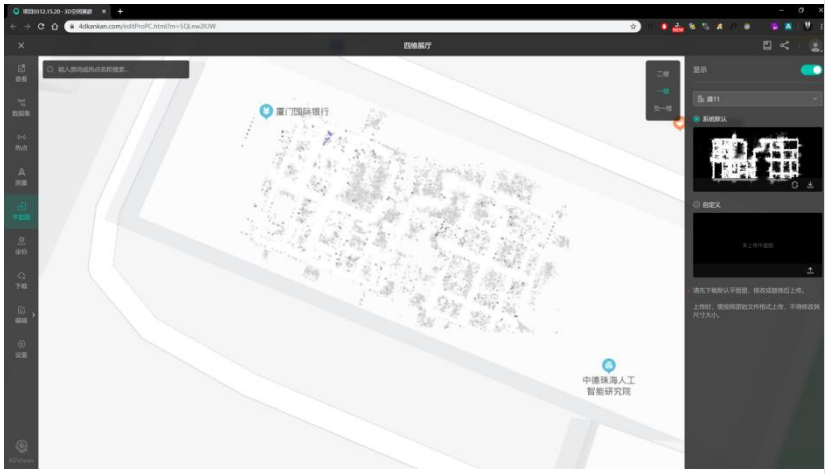
Measure

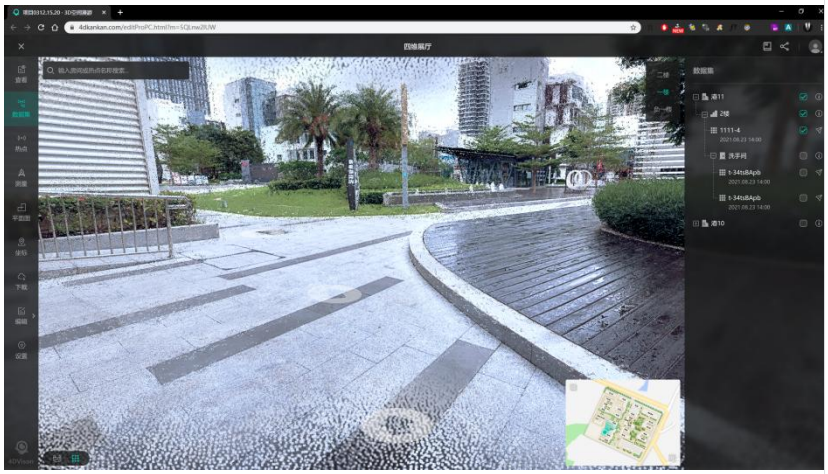
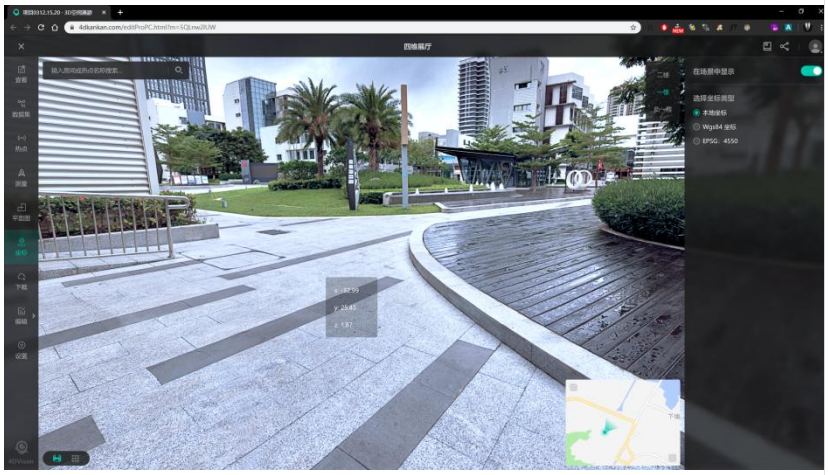
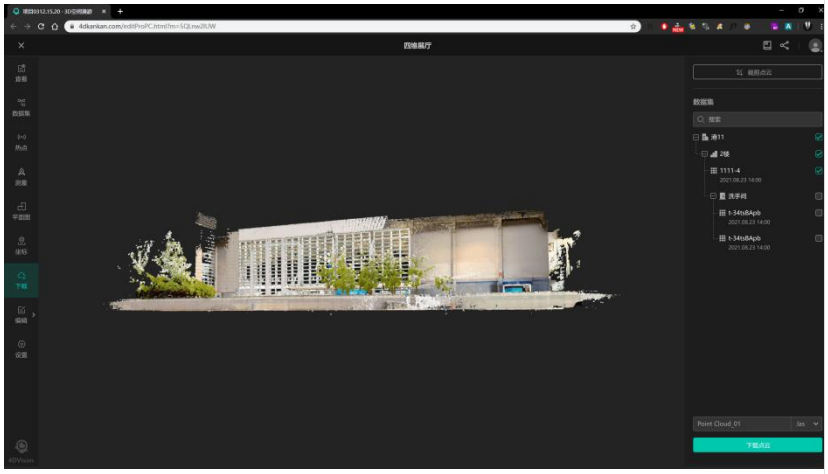
Freely measure distances and areas in the project



Floor Plan

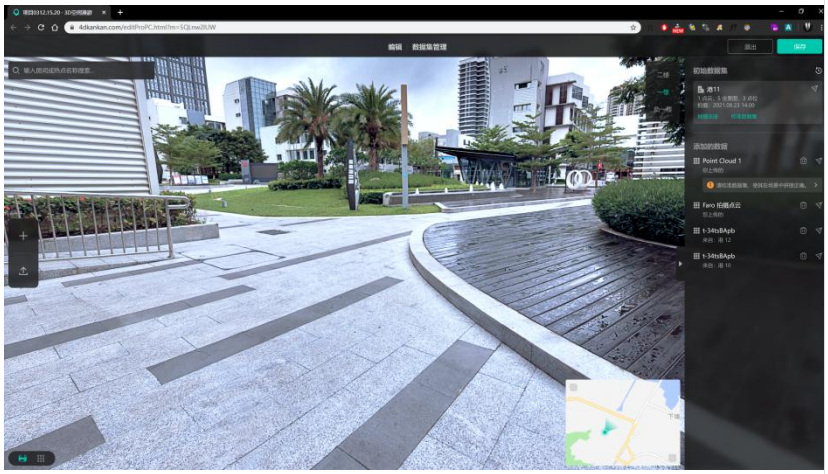
Upload your own floor plan



Mini-map	
Coordinates Display latitude and longitude coordinates according to the position of the mouse.	
Download Download point clouds	
Edit	

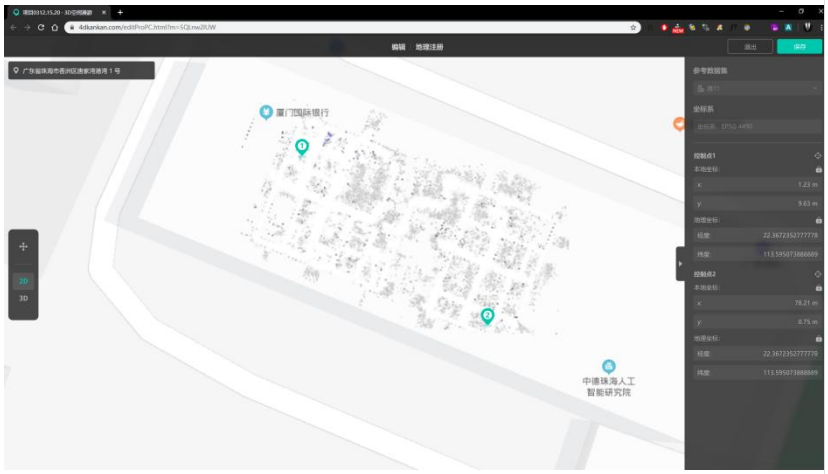
Dataset Management

Adding multiple datasets



Geo-registration

Locate the photographed dataset on the Google Maps



Dataset Calibration

Correctly merge multiple datasets into one complete dataset when multiple datasets exist

Space Model

Divide and name datasets