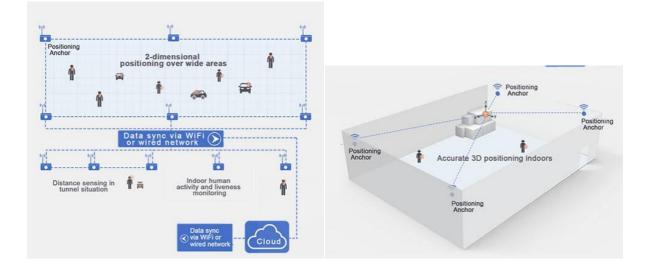
UbiTrack UWB RTLS

UbiTrack[®] is an integrated multi-dimensional indoor positioning solution, featuring high accuracy, flexibility and low cost. The system enables access to functions such as real-time positioning, tracking playback, high-speed camera linkage, accurate face recognition, electronic fence alarm and so on. Configuration and deployment takes just four steps: deploying the positioning anchors, configuring the software, uploading the floor plan, and setting up the positioning tags.

The products include positioning anchors and positioning tags (customisable form). The centimetre-level positioning standard is achieved by combining UWB (Ultra Wide-band) wireless communication with multiple algorithms. The product has the advantages of high accuracy positioning, low power consumption, high anti-interference capability, low cost and small size. Easy to deploy and highly reliable. The product format is not limited and can be designed flexibly for different applications and additional functions can be added.

To meet different needs of system integration and end users , a number of data analysis and processing algorithms are used, and also a mixture of algorithms. Users can choose from a variety of positioning modes such as spatial positioning (3D), area positioning (2D) and track positioning (1D). Based on TWR and TDOA positioning methods, the system can accurately locate the position of people, vehicles, assets and surrounding environment information in real time without interruption.

UbiTrack Starter Kit is the minimum combination of hardware and software that can realize high precision positioning. The positioning range can be extended by increasing the number of anchors and tags.



Key Features

- Support for a maximum area of 900 square meters positioning
- Optional 0D, 1D, 2D, 3D positioning
- Real-time accurate position display
- Historical track playback
- Electronic Fence Alert
- Multi-algorithm Hybrid Processing
- Open API/SDK
- Multi-Level Permission Management

Content of the kit

- 4 x Indoor Anchor UbiTrack-A1
- 2 x Positioning Badge II (With Screen) UbiTrack-TB3
- 2 x Civilian Wristband UbiTrack-TWC1
- 2 x Goods Positioning Tag II-TG2(Demolition Alert) UbiTrack-TG2
- 6 x Magnetic charging cable
- 1 xUbiTrack platform software



Specifications

Indoor Anchor UbiTrack-A1

UbiTrack-A1 provides high accuracy measurements. With its high performance MCU, it is capable of supporting large number of tags at the same time. The physical appearance of the anchor can be customized if wanted.

Power Supply: PoE or DC12V /1A Network: Supports Ethernet(PoE) Positioning System Frequency: 3.5GHz-6.5GHz Operating Temperature: -20°C to 60°C Dimensions: 7.87"× 7.87"× 1.77" (200mmx200mmx45mm)

Positioning Badge II UbiTrack-TB3

UbiTrack-TB3 is a second generation positioning badge which is small and handy. It is used for personnel positioning and it supports UWB positioning communication. The badge supports tracking, motion detection and SOS one-click alarm, and it can also be equipped with an optional e-ink screen to display detailed personnel information, notification information and so on.

UWB Operating Frequency: 3.5GHz-6.5GHz UWB Transmitting Power: 0-33.5dB (Adjustable) NFC Operating Frequency*: 13.56MHz Additional Sensors: Acceleration Sensor Optional E-Ink Screen*: 1.14"×1.14"(29mmx29mm) Stand-by Power Consumption: 0.19mW Optional Functions: Messages, vibration , RFID*, SOS, etc. Power Supply: Rechargeable 400mAh lithium battery Battery Life: 1-2 months (1Hz) Dimensions: 3.50"×2.28"×0.27"(89mmx58mmx6.9mm) Operating Temperature: -20°C to 55°C Operating Humidity: 10-90%



UbiTrack-TWC1 is a smart watch positioning tag, it is mainly used for people positioning, such as the elderly or special groups. It supports UWB positioning communication. The watch has physiological monitoring, electronic fence, alarm, step counting and other functions. Its' OLED display screen can display time, heart rate, notification and other information.

UWB Operating Frequency: 3.5GHz-6.5GHz UWB Transmitting Power: 0-33.5dB (Adjustable) Additional Sensors: Heart rate (photoelectric), Acceleration Sensor Power Supply: Rechargeable 400mAh lithium battery Dimensions: 1.67"× 1.67"× 0.64" (42.5mm x42.5mmx16.3mm) OLED Screen: 1.15"×0.58" (29.4mm×14.7mm)





Operating Temperature: -20°C to 55°C Operating Humidity: 10-90% Battery Life:1-3 months

Positioning Tag II-TG2(Demolition Alert) UbiTrack-TG2

UbiTrack-TG2 is a small and lightweight positioning tag with multiple installation modes, it can be attached to a helmet or other objects and enable you to accurately track people or goods. It also be equipped with an optional demolition prevention alert function to help you with device management.

UWB Operating Frequency: 3.5GHz-6.5GHz UWB Transmitting Power: 0-33.5dB (Adjustable) Power Supply: Rechargeable 1000mAh lithium battery Battery Life: 1-4 months(1Hz) Operating Temperature: -20 °C to 55 °C Operating Humidity: 10-90% Dimensions: 3.27"× 1.97"× 0.87" (83mmx50mmx22mm) Optional Functions: Messages, voice, SOS, demolition prevention alert, etc

Please see the Manual below.

UbiTrack Manual

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1. Summary

1.1 Terms and Definitions

(1) **Anchor:** The main function is to receive the signal sent by the tag and sent the platform command to the tag. The anchor needs to develop different installation schemes indoors or outdoors according to the site and other situations.

(Blue light flashing is in normal operation, white light is upgrade the firmware, red and purple light flashing is no server IP address configured or no network connection, green light flashing is that the anchor is rebooted or powered on)

(2) **Tag:** Device that need to be monitored for real-time positioning, can be worn on people or goods and other items. The tag itself sends UWB signals to communicate with the anchor to complete the purpose of being calibrated and exchanging information.

③ **Server:** The terminal equipment used to carry the positioning system, part of the computing power of the equipment will run the positioning algorithm, and then calculate the real-time positioning of the tag to be located; No other privatized software can exist in the terminal itself, otherwise conflicts will arise.

(4) **UbiTrack OPP Manager:** The software installed on the server, the software environment used on the server is more complex, sometimes some third-party plug-ins or libraries are used, and they are problems with the support of the Chinese path, so the OPP must be installed in English-only path.

(5) **Platform:** The real-time positioning results calculated by the feedback server provide the entrance of the user to operate the device, and the relevant requirements for completing the addition, deletion and modification of anchors, tags, member, warning rules, etc.

(6) **Zone Plan:** The picture used to simulate the real positioning area on the positioning platform needs to set the plotting scale, associated anchor, etc., and after completion, you can view the real-time movement of the tag on the floor plan, and then understand the goods, person, etc. in the real scene.

(7) **E-Fence:** Based on the floor plan, draw a specific range, user can set an warning rule for the fence, or can check whether a tag is in a fence in the tag list.

(8) **Warning Rule:** Users set offside, offline, and other rules for tags on the positioning platform, and the platform displays an alert message after the tag triggers the rules.

(9) **Track Playback:** View data related to the server's positioning of motion trajectories based on pre-stored tags.

10 PC Tools: After the tag is connected to the terminal, and the terminal can view the parameter values of the tag through the PC tools, as well as modify the active/static frequency and time.

1.2 Basic Configuration Requirements

1.2.1 Server Configuration

Minimum configuration:

- 1) Operation System: Windows10 +;
- 2 CPU: dual-core 2.0GHz or above, supports virtualization;
- ③ Memory: 4G or above;
- ④ Solid state disk: 20G or above.

Recommended configuration:

- ① Operation System: Windows10 +;
- 2 CPU: dual-core 3.0GHz or above, supports virtualization;
- ③ Memory: 8G or above;
- ④ Solid state disk: 20G or above.

1.2.2 Platform Operating Environment

The positioning platform supports a variety of browsers, but mainly supports Google Chrome browser, in addition to the use of Google Chrome we can not guarantee that other browsers can fully operate all the functions of this product positioning platform, please try to use Google Chrome browser.

1.2.3 Notes

OPP may have conflicts when the server has the following software or ports occupied:

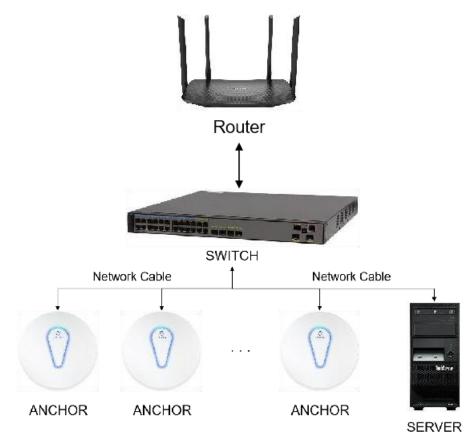
(1) Softwares: Apache $\$ mysql $\$ mosquitto $\$ redis $\$ UbiBot OPP (Temporary conflicts will be optimised later)

2 Ports: 80、81、8080、3000、3006、3306、1883

2. Basic installation and configuration

2.1 Hardware Configuration

The hardware network connection is shown in the figure below. The server and anchor should be connected with the switch, and the switch connects to the router (DHCP enabled) to form a network. If the switch is an ordinary switch, the anchor needs a separate power supply after connecting with the network cable. If it is a PoE switch, the anchor can be directly connected with a network cable above class 5, without separate power supply. After connected to the network, the anchor will be automatically connected to the platform.



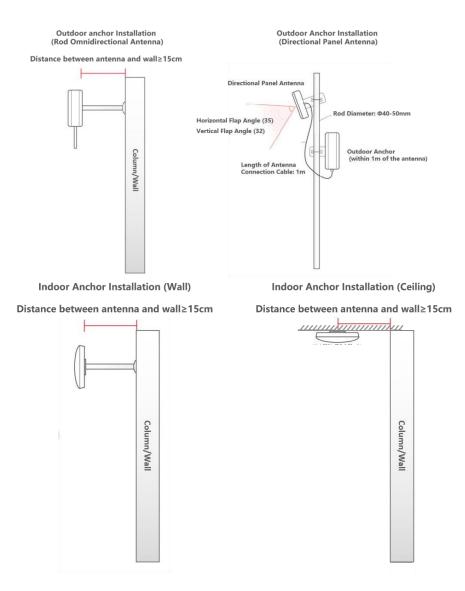
Note:

① When new anchors are configured through the web page, they need to be configured one by one, not simultaneously. Otherwise, there an IP address conflict will occur and the anchors will not be able to join the network automatically.

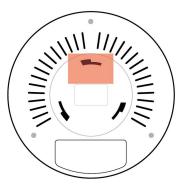
② Before installation, please record the last four digits of the product serial number and the deployment location for the better configuration.

2.1.1 Installation

The antenna of the anchor should be at least 15cm away from the wall. This requirement is to reduce the signal interference to the antenna. (Except plate directional antenna)

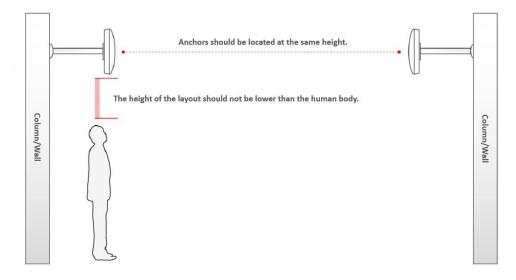


The indoor anchor has a built-in antenna, which is located on the back of the center, and this part should not be in direct contact with the metal support.

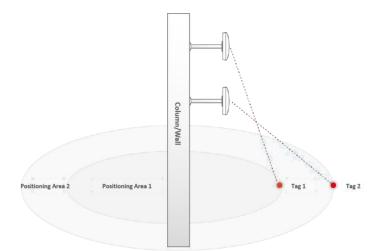


The anchors should be located at the same height, the height of the The anchors should be located at the same height, the height of the layout should not be lower than the human body.

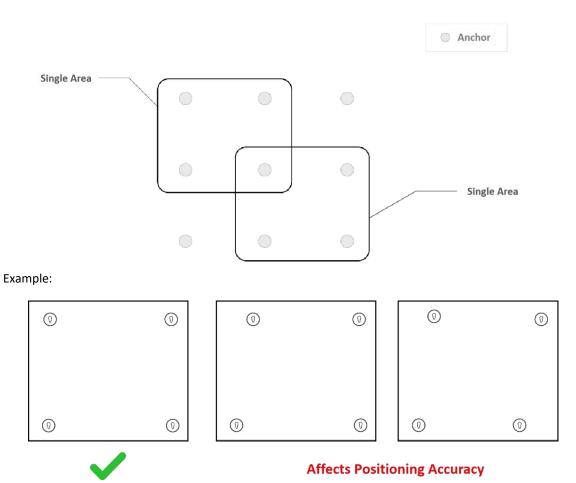
It is recommended that the indoor anchor could be installed with a height of 3-10m and a horizontal distance of 15m to meet the communication accuracy (no occlusion).



By increasing the height of the anchor, the occlusion effect between the anchor and the tags can be reduced appropriately and the positioning accuracy can be improved. It should be noted that since the communication distance between the tag and the anchor is relatively fixed, the corresponding positioning range area will decrease when the anchor height increases.



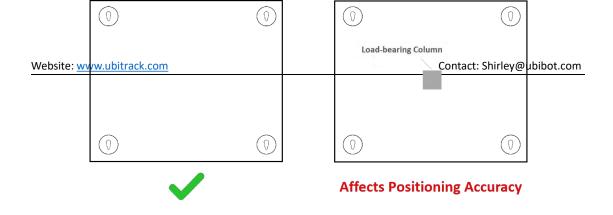
When the TDOA algorithm is used for positioning, the minimum number of anchors is 4, and the anchor layout is expanded with rectangle as the basic unit. When the TWR algorithm is used for positioning, the location of the anchor is free and depends on the specific situation.



Note: If there are only 3 anchors, please use TWR algorithm and change the "TWR Min number of anchors" to 3 in [System Management] - [System Settings].

				Blue ✔ English ✔ (◎) a***n ✔
💣 🃍 a***n 🔍	Color California I and a second			
Real-Time Monitoring	System Settings Management		from the second s	
Device Management	Positioning Settings	Tag offline time(s)	10	After this time, the tag will be grayed out on the page
		Tag disconnection time(s)	30	Tag disconnection time > Tag offline time; After this time, the label disappears on the page
Zone Management		TWR Min number of anchors	●3 ○4	
A Member Management		TDOA Min number of anchors	4	Default: 4
🕹 Alerts Management		Average sampling counter of positioning coordinate values	6	Average the coordinate values of N times as this coordinate
Track Playback		Anchor broadcast data duration(ms)	20000	When setting the tag parameters, the anchor broadcast data duration (ms)
Outdoor Positioning		Anchor setting ignore list	Set ignore list Do not set ignore list	In the case of SOS warning, click the button times to give an alarm (Set ignore list: 6 times; Do not set ignore list: 3 times)
System Management		Data selected for Rule	O TWR O TDOA . TWR, TDOA	
Menu		The positioning result returns the info. of the e-fence where the tag is located	Return O Do not return	
		TDOA Algorithm	UbiTrack OTTK	
Authority		Positioning data retention days	4	
✗ OPS Management		Positioning data save type	Sampling	
User Center		Positioning data sampling save distance interval (unit: meters)	0.6	The positioning data is saved only when the distance between the two positioning results exceeds this value.
		Positioning data sampling save time interval(Unit: second)	30	The distance between the two positioning results does not exceed the threshold. According to the time between the two positioning results, the positioning data will not be saved until this value is exceeded.
© 2013-2023	Tag Alarm	Tag Alarm Type	O Vibration Motor Buzzer	

The anchor in a single area are visible from each other (no occlusion in the middle).



2.1.2 Network Configuration

① Enter the initial access address 192.168.1.10. Then enter the default user name (admin) and password (admin), and click **[Sign in]**. (Configure the anchors one by one, not simultaneously, otherwise they will not be recognized.)

No.147f MAC 00 80 e1.15.2d.18 System Up Time 2:17.39	English v
Please sign in.	
Username	
Password	
Sign in	<u> </u>
Change Password	

② Enter the following information and click **[Save]**. The anchor will restart automatically.

- Server IP Address:
- UWB Tunnel No.: Input any value from 1 to 4, and the signal tunnels of two adjacent anchors should not be the same.
- UWB mode: Primary Anchor /Slave Anchor / Second Primary Anchor (The Second Primary Anchor is generally used in scenarios with more than 8 anchors)
- UWB Power Settings Mode: It is recommended to select "Manual".
- UWB Power/UWB Antenna Delay Calibration/UWB Clock Synchronization/UWB self-calibration/Lag Delay: It is recommended to use the default values.
- Follow Master: The primary anchor does not need to set this item, slave anchor sets the last four digits of the primary anchor.
- LED Indicator: It is recommended to turn it on, and the LED color switch will play a role as a prompt.

No.147f MAC	:00.80.e1:15:2d:18 em Up Time:0:0:22				English
	Anchor Info.	OTA	IP Settings	File Upload	
	Server IP Address				
	192.168.1.8				
	UWB Tunnel No. 🔞				
	1			~	
	UWB Mode 🚱				
	Slave Anchor			~	
	UWB Power Settings Mode 🚱				
	Manual			*	
	UWB Power 👔				
	1111111				
	UWB Antenna Delay Calibration 🍘				
	16555.1				
	UWB Clock Synchronization @				
	200				
	UWB Self-Calibration 🚱				
	5000				
	LED Indicator 🕑				
	Off			~	
	Follow Master 🚱				

③ IP Settings: It can be set to automatic ip or manual IP (default is manual IP). After setting, wait for 2-3 minutes, the device can automatically access the platform. (If the anchor is connected to the platform, the initial IP address will not be accessible, and the details of the anchor can be viewed on the platform; The anchor blue light flashing is in normal, otherwise please move to "1.1 Terms and Definitions" in this document to see definitions of different lamp colors.)

	hor Info.	OTA	IP Settings	File Upload	
IP	> Туре				
	Manual IP			•	
	Automatic IP				
	Manual IP				
	IP Address				
S	ubnet Mask				
	Subnet Mask				
D	efault Gateway				
	Default Gateway				
D	NS Server 1				
	DNS Server 1				
D	NS Server 2				
	DNS Server 2				

2.2 System Installation

(1) Contact sales or after-sales staff to get the latest installation package of UbiTrack OPP (as shown below), and double-click to enable the installer.



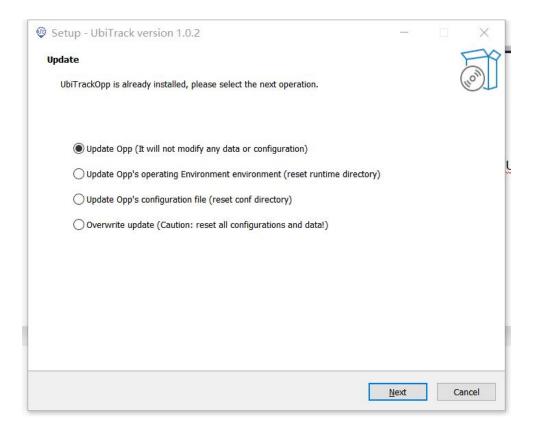
② Select the language that will be displayed during installation and click **[OK]**.

_		
O	选择安装时要使用的语言。	
	English	

③ When the server has installed UbiTrack OPP for the first time, the following interface will be displayed, select the installation path and click **[Next]**. (Note: OPP must be installed in English-only path)

		14.5
Setup - UbiTrack version 1.0.2		×
Select Destination Location		F
Where should UbiTrack be installed?		HOM
Setup will install UbiTrack into the following folder.		
To continue, click Next. If you would like to select a different folder, click Browse.		
C:\UbiTrack	Browse	
At least 220.6 MB of free disk space is required.		

④ When UbiTrack OPP has been install on the server and intends to install the latest installation package, the following interface will be displayed, click **[Next]**.



5 Select whether you want to create a desktop shortcut and click **[Next]**.

Setup - UbiTrack version 1.0.2		-		\times
Select Additional Tasks Which additional tasks should be performed?				- Con
Select the additional tasks you would like Setup to perform whi	ile installing UbiTrack	, then clic	k Next.	
Additional shortcuts:				
Create a <u>d</u> esktop shortcut				
			-	
	<u>B</u> ack	<u>N</u> ext	C	ancel

6 After confirming that the previous operations are correct, click **[Install]**, and the system will be installed on the server as required.

⑦ You

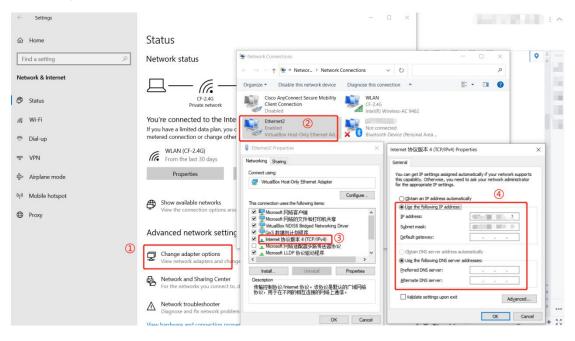
Cancel

			F
Setup is now ready to begin installing UbiTrack on your comput	er.		())
Click Install to continue with the installation, or click Back if you	want to revie	w or change any s	settings.
Destination location: C:\UbiTrack Additional tasks:			^
Additional shortcuts: Create a desktop shortcut			
<			>
	Back	Install	Can
			Curre
el the installation during the installatio	n proces	S.	
up - UbiTrack version 1.0.2			
alling ease wait while Setup installs UbiTrack on your computer.			(
stracting files			
Allegentian all Annotal and Annotal and Annotal and a	zip		
:\Users\:			

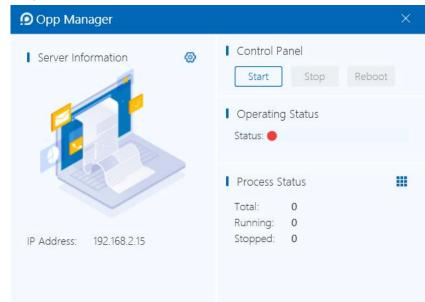
(8) When the installation progress has been completed, it cannot be canceled, and do not close the installation process by shutting down, forcing the program to close by Task Manager, etc., which may cause the file to be missing and the installation will fail or the program cannot be used normally.



(9) Fix the server IP address: ①Open [Network Status - Change Adapter Options]; ②Find the network used by the server and right-click [Properties]; ③Room up the [Properties] button of the protocol in the picture; ④Switch to fixed IP mode and save it for sure. (fixed IP depends on the user's personal situation)



10 After running UbiTrack OPP, click [Start].



2.3 Platform Basic Configuration

2.3.1 Log in to the platform

(1) After starting the server and opening OPP Manager, open Google Chrome browser, enter the

<u>http:// server IP:81/login.html</u> in the address bar, and enter the login interface of the positioning platform. ("server IP" please manually modify according to the user's device situation)

新标签页	× +	v (σ	×
	G http:// server IP:81/login.html		2	÷

② On the server management interface, enter the IP address of the corresponding server and click [OK].

UbiTrack				
		Sign in	LAN Settings	JWB
		Please enter your LAN address © Enter when the server LAN address		
	TDOA		55 is not 192.168.1.8	alman filtering
		Virtual Servers Settings		
		© 201	3-2023	

③ Enter the default user name (admin) and password (admin) on the user login interface, and click **[Log me in]** to enter the home page of the positioning platform.

UbiTrack			
		Sign in LAN Settings	
		EmailUsemane	
	TDOA	©Remember me alman filtering	
		Log me in	
		© 2013-2023	

2.3.2 Plan Ratio Configuration

① Click **[Zone Management - Zone - Add]** to enter the "Zone Basic Information" interface.

- Databut (B)				
ity nut	e Management			
Real-Time Monitoring 🗸	Q +Add			
9 Device Management 🗸	Name	Zone Setting	Sorting	Operating
Zone Management 🗸 🗸	CloudForce		.99	C + 8 + 10 + 12
• Zone			1	Ø 8 💼 🛱
E-Fence		1111/15/2		
Member Management 🗸	< 1 > Total 1 pages, Go to 1 page OI	K .		
Warning Management 🗸 Th	s form page can display 10 💌 entries			
Track Playback 🗸 🗸				
Prison Management.				
Outdoor Positioning ~				
System Management 👩 🐱				
OPS Management 🗸 🗸				

(2) Fill in the name of the zone, click [Select The Picture], select the image to be uploaded, and click the [Save & Next Step] to enter the "Calculate the plotting scale" interface. Note:

- All dimensions and layouts in the picture must be in proportion to the actual situation, otherwise the positioning accuracy will be affected.
- The image format only supports jpg/png format, and the Max-Size is 5MB.
- "Multi-Dimension" is to determine whether different types of anchors (2D/ 1D/ 0D) are displayed in the same zone.

UbiTrack			Blue 🗸 English 🗸 🙆 liy***hui 🗸
e liy***hui	Zone Basic Information / Configure The Map Scale / Calibr	ate The Anchor,Camera Location / Set The Anchor Information	
◆ Real-Time Monitoring ~			
Device Management ~	Name	Name	0
🔰 Zone Management 🗸	Scale 😣	0.1	
Zone	Horizontal Length 🥹	Horizontal Length	
E-Fence	Vertical Length 🥹	Vertical Length	
음 Member Management ~	Sorting	Sorting	
	Multi-Dimension 😣	No	
🕁 Warning Management 🗠		Select The Picture	0
Track Playback ~		JPG/PNG Format Supported, Max-Size 5MB	
Prison Management ~			
 Outdoor Positioning 		Save & Next Step	
 System Management 1 ~ 			
✗ OPS Management ~			
v1.02			

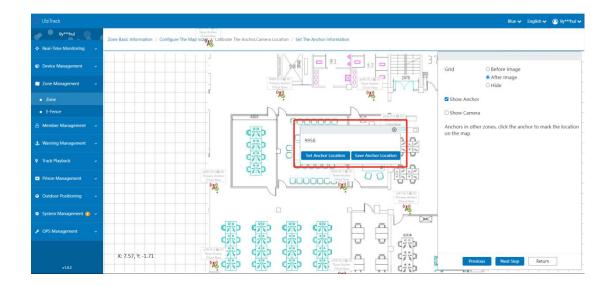
③ Click the **[Begin to select]**, select two points of known distance on the plan, after the confirmation, enter the actual distance between the selected points, finally click the **[Calculate]** calculate the plotting scale and then click **[Save & Return]** enter the Set anchors and cameras location interface.

	Blue v English v 🚯 By**hal
🥐 🃍 liy***hui 🔍 👔	Zone Basic Information / Configure The Map Scale / Calibrate The Anchor/Camera Location / Set The Anchor Information
♦ Real-Time Monitoring	
Device Management ~	Srid OBefore Image
🕊 Zone Management 🗸 🗸	After Image
• Zone	2. O Step 1. Select two points of known distance on the plan in order
E-Fence	
3 Member Management 🗸 🗸	
🗜 Warning Management 🗸 🗸	Step2.Enter the actual distance between the selected points
7 Track Playback 🗸 🗸	Sten3 Calculate the plotting scale
Prison Management ~	
Outdoor Positioning ~	
🕽 System Management 👩 🐱	
🗲 OPS Management 🔍 🗸	
	X: 7.69, Y: 5.29 Save & Read Step Save & Read Step
v1.0.2	

④ In **[Device Management - Anchor]**, the anchor associated to the current zone will be displayed at the (0,0) coordinate point waiting for calibration, or the anchors not associated to the current zone will be displayed on the right side waiting for association.



(5) Click the anchor that needs to be calibrated, the platform will prompt the corresponding pop-up window (as shown in the figure), click **[Set Anchor Location]** and slide the controller (mouse, etc.) to move to the position you want to calibrate, click the platform again will display the prompt pop-up window again, click [Save Anchor Location] to successfully calibrate a anchor location, and so on for the rest of the anchor calibration methods. After the calibration is completed, if you want to modify the anchor information simply, click **[Next]** to enter the "Set Anchor Information" interface, if you do not want to modify, the current step completes the association of the anchors with the plan.



(6) Click the anchor you want to modify the information, the modified information will be displayed on the right, click **[Save]** after the modification is completed to update the anchor settings, set other anchors, and so on.



2.3.3 Anchor Configuration

According to the positioning requirements, 2D, 1D and 0D positioning methods can be selected. Among them, 2D method can achieve accurate positioning, supporting TWR and TDOA two algorithms. 1D method only supports TWR algorithm, which is suitable for positioning requirements of long and narrow spaces, such as corridors. 0D method also only supports TWR algorithm, which can be used to determine whether the tag is in the positioning area or not. Click **[Device Management - Anchor]**, based on the last four digits of the serial number, find the

anchor to be provisioned. Click [**Edit**] and [*** advanced Settings**] to make the relevant settings.

Real-Time Monitoring 🐱	Q SerialNo		Zone	♥ Dimensi	on 👻 Online or No	t 👻 TTK Anchor	s relationship tree							
Device Management v	Zone 🕈	SerialNo 🕏	Is Online 🕈	IP ¢	MAC ¢	Dimension 0 +	UWB Tunnel No. 0 🕈	UWB Mode 0 ¢	Firmware \$	Last Communication Time \$		Operati	ing	
Anchor	R&D Department	147f	Yes	192.168.1.209	00:80:e1:15:2d:18	2D	1	Slave Anchor	V0.2.51	a few seconds ago		Q	P	E
Tag Tag Group	R&D Department	a2f1	Yes	192.168.1.208	00:80:e1:06:48:27	2D	3	Primary Anchor	V0.2.51	a few seconds ago	2	•	Ģ	E
Tag Category	R&D Department	333e	Yes	192.168.1.195	00:80:e1:06:2c:43	2D	2	Slave Anchor	V0.2.51	a minute ago	2	\$	Ţ	T
Camera	R&D Department	a28e	Yes	192.168.1.210	00:80:e1:14:32:1f	0D	4	Slave Anchor	V0.2.51	a minute ago	ø	0	ę	T
Camera Transcoding	R&D Department	9958	Yes	192.168.1,141	00:80:e1:14:26:31	2D	3	Slave Anchor	V0.2.51	a minute ago	0	•	P	1
TagsChange	R&D Department	6009	Yes	192.168.1.226	00:80:e1:06:37:3f	1D	1	Slave Anchor	V0.2.51	a minute ago	8	\$	ę	t
one Management 🖂 🗸	R&D Department	ab8f	Yes	192.168.1.213	00:80:e1:06:2a:34	1D	3	Slave Anchor	V0.2.51	a minute ago	0	•		1
dember Management 🐱	R&D Department	ab61	Yes	192.168.1.222	00:80:e1:06:3b:19	0D	4	Slave Anchor	V0.2.51	a minute ago	ø	o (e)	T
derts Management 🔍	R&D Department	ab60	Yes	192.168.1.214	00:80:e1:14:30:20	1D	2	Slave Anchor	V0.2.51	a minute ago	0	\$	¢	1
rack Playback 🗸 🗸	R&D Department	ab62	Yes	192.168.1.152	00:80:e1:06:3f:28	2D	4	Primary Anchor	V0.2.51	a minute ago	0	\$	P	Y
Dutdoor Positioning 🗸	< 1 2	> Total 2 p	ages, Go to	page OK							11 11 12			

1) 2D method

Choose 2D method, please set on the [Edit] as below:

- ① Zone: select the area which the anchor belongs to.
- ② Primary Anchor: the last four digits of the corresponding primary anchor serial number.
- ③ Dimension: 2D (can only be selected individually).

Note: There can only be one primary anchor in each area. When configuring each anchor, the last four numbers of the main anchor serial number must be filled in the "Primary Anchor". For example, the anchor serial number is "1234ABCD", then "ABCD" must be filled in the "Primary Anchor" tag.

Real-Time Monitoring v		_										_	_	-	-
	Q SerialNo		Zone	✓ Dimensi	ion 👻 Online or Not	 TTK Anchors re 	lations	ship tree							
Device Management v	Zone ¢	SerialNo	Edit							nware •	Last Communication Time		Oper	rating	
Anchor	R&D Department	147f	SerialN	0 147f		Zo	ne	R&D Departme	ent 🗸	/0.2.51	a minute ago	Ø	٥	Ę	E
• Tag	R&D Department	a2f1	Dimensio	n 🖲 2D 🔾 1	D () 0D	, -				/0.2.51	2 minutes ago	Ø	•	Ę	-
Tag Group Tag Category	R&D Department	333e	and the second s	X 12.37143]	Y	2.92857		/0.2.51	2 minutes ago	Ø	•		In
Camera	R&D Department	a28e		Z 0		Orientati	on	0		/0.2.51	2 minutes ago	0	•	e	1
Camera Transcoding		03865	Primary Ancho	a2f1	¥							0	-		
Dvr	R&D Department	9958	Anchor Grou	p 301						/0.2.51	2 minutes ago				
TagsChange	R&D Department	6009	List of Primar Anchor							/0.2.51	2 minutes ago	Ø	\$	Ę	T
Zone Management 🗸	R&D Department	ab8f			More	Information				/0.2.51	2 minutes ago	۲	٥	ē	Your
Member Management 🐱	R&D Department	ab61				•				/0.2.51	2 minutes ago	Ø	٠	Ę	And
Alerts Management ~	R&D Department	ab60			Modify	Cancel				/0.2.51	2 mínutes ago	0	٠	Ę	And A
Track Playback 🗸 🗸	R&D Department	ab62	Yes	192.168.1.152	00:80:e1:06:3f:28	2D		4	Primary Anchor	V0.2.51	2 minutes ago	Ø	•	¢	Te
Outdoor Positioning 🖌	< 12 (> Total 2	pages, Go to 1	page OK											

2) 1D method

Choose 1D method, please set on the [Edit] as below:

- 1 Zone: select the area which the anchor belongs to.
- ② Dimension: 1D (can only be selected individually).

③ 1D Pairing: last four digits of the serial number of the matching anchor. (Multiple 1D paired anchors can be selected for use in the middle of a long corridor, pairing anchors on both sides)

UbiTrack							Blue	🗙 Eng	lish 🗸	ⓐ a ²⁴⁵ n ♥
🛷 🃍 e***n 🔍	Anchor Management									
♦ Real-Time Monitoring	Q SerialNo	Zone	1D Online or Net	t • TTK Anchors relation						
Device Management ~	Zone ¢ SerialNo				Isinp ace	nware 🖨	Last Communication Time \$		Operatir	10
Anchor	R&D Department 6009	SerialNo	6009	Zone	R&D Department	/0.2.51	a few seconds ago	0	\$	2 8
• Tag	R&D Department ab8f	Dimension	○ 2D ● 1D ○ 0D			/0.2.51	a few seconds ago	Ø	\$ 0	2 8
Tag Group Tag Category	R&D Department ab60	1D Pairing	abi60			/0.2.51	a few seconds ago	0	Ö 0	2 8
Camera		×	-6.456	Ŷ	6.68914					
Camera Transcoding	< 1 > Total 1 pag	z	0	Orientation	0	_				
• Dvr	This form page can display 10 v en	Primary Anchor	ab62	•		_				
TagsChange		List of Primary Anchors	ab62							
🛍 Zone Management 🗸		Anchors		ore Information		_				
A Member Management ~				▼		- 10				
🛃 Alerts Management 🗸 🗸						- 10				
🕈 Track Playback 🗸 🗸			Mod	fy Cancel						
 Outdoor Positioning ~ 										
 System Management ~ 										
© 2013-2023										

3) 0D method

Choose 0D method, please set on the [Edit] as below:

- ① Zone: select the area which the anchor belongs to.
- ② Dimension: 0D (can only be selected individually).
- ③ Threshold: the maximum radius of the positioning area.

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@ • attn @ _											
◆ Real-Time Monitoring →	Anchor Management	-						_			
Device Management	Q SerialNo	Zone	 ♥ OD ♥ Online or Not 	TTK Anchors relation	iship tree						
Device Management	Zone 🗢 SerialNo	Edit				🔆 🖊 nware 🗢	Last Communication Time \$		Operat	ting	
Anchor	R&D Department ab61	SerialNo	ab61	Zone	R&D Department	v /0.2.51	a few seconds ago	Ø	٠	P	ī
• Tag	R&D Department a28e	Dimension	○ 2D ○ 1D ● 0D			10.2.51	a minute ago	Ø	8		-
Tag Group		Threshold	5					-	-	+ 0	
 Tag Category 	< 1 > Total 1 page	×		Y		_					
Camera			-13.02857		11.35714						
Camera Transcoding	This form page can display 10 👻 ent	Z	0	Orientation	4						
Dvr		Primary Anchor	ab62 ~								
 TagsChange 		List of Primary Anchors	ab62								
🛍 Zone Management 🗸 🗸 🗸 🗸		201012	More In	formation		-					
👃 Member Management 🐱				▼							
🕹 Alerts Management 🗸 🗸			Modify	Cancel							
♥ Track Playback ✓											
 Outdoor Positioning ~ 											
Ø System Management →											
© 2013-2023											

2.3.4 Tag Configuration

Start the tag normally and move it into the configured area and anchor, and the tag will be

automatically associated to the platform **[Device Management - Tag]**. Click **[Real-Time Monitoring - 2D View]** to see whether the tag is displayed normally in the plan and accurately positioned in real time (Figure 1 below), if not, please check whether the active/static frequency of the tag in **[Device Management - Tag]** is too high.

														Blue 🗸	English 🗸	Iiy***hui
• ily***hui •	Tag Mana															
Real-Time Monitoring ~		~				ir			-	Yes O No Static			2.11			
Device Management 🗸		erial/Member Nam Delete all		Tag Category	~	Online	or Not		Static FN U	Yes O No Static	FN Ad	CUVE FIN 🙂 Ye	s O No Active FN			
Anchor	Serial ¢	Tag Category \$	Icon \$	Member Name					Range Type 🗢	Firmware 🖨	Static FN 🖨	Active FN \$	Last Communication Time \$		Operati	ng
Tag Tag Group	of54	TWC1	a }	14	4 3.61V	84bpm	11 45	* Inactive	TWR	UT-TWC1_V2.0.9	5000	500	in a few seconds	-\ * @	0 188 [
Carnera						No										
Camera Transcoding Dvr	e869	TG2-A			4 3.95V	174652	k Inactive	R Not Charging	TWR	UT_TG2_V0.1.4	5000	500	In a few seconds	Ø	181 D	
TagsChange						LED	ON									
one Management 🔍 🗸	4ea4	TG2-A		13	4 8.95V	172352		Not	TWR	UT_TG2_V0.1.4	5000	500	in a few seconds	0	181 🗉	
vlember Management 🐱					4		*	8								
Varning Management 🗸	28d5	TG2-A	I	3	7 4.12V		Inactive	Not Charging	TWR	UT_TG2_A_V0.2.0	5000	500	in a few seconds	۷	181 🗊	i= 🗊
frack Playback v	5504	TB3-A		Ta Ita	4 4.08V		* Inactive	Charging	TWR	UT_TB3_V0.2.1	5000	500	In a few seconds	Ø	181 D	:= 0
rison Management 🗸 🗸						LED										
v1.02	4347	TWL2			4 3.96V	*	ņ	Unlocked	TWR	TWL2_V0.2.2	5000	500	in a few seconds	-\ * 0	0 188 [) . = . 1

Default value: static 5000, active 500; Recommended normal value: static 1000, active 200.

If it is too high, click **[OPS Management - Tag Parameter - Add]** to set the command to modify the active/static frequency of the tag, move the tag to the anchor that sends the signal, and wait for the tag to execute the modification command. (For detailed operation steps, please refer to **[3.9.1 Tag Parameter Management]**), or use the UbiTrack PC tool to directly modify the tag active/static frequency.

0 UbiTrack					Blue 🗸 Engli	sh ✔ 🙆 liy***hui ✔
liy***hul	Tag Parameter Management					
Device Management ~	Q Name	+ Add				
📑 Zone Management 🗸	Name 🗢 🔽	Enabled/Disabled \$	Tag Parameter 🗢	Creating Time \$	Update Time 🗢	Operating
201e Wanagement V	time	OFF	{"set_utctime":1}	2023-03-09 10:03:13	2023-03-09 10:03:13	
👌 Member Management 🐱	100 million (100 million)	OFF	{"active_fn":200, "static_fn":1000}	2023-02-21 15:18:38	2023-03-06 11:16:56	
👃 Warning Management 🗸	0003	OFF	{"static_fn":100,"active_fn":100,"cm_led":1}	2023-02-22 09:30:06	2023-02-22 15:37:22	
🕈 Track Playback 🗸 🗸	0306-500	OFF	{"active_fn":500}	2023-02-21 15:45:02	2023-02-21 15:45:02	
	0306-5000	OFF	("static_fn":5000)	2023-02-02 13:48:48	2023-02-21 15:44:19	0
Prison Management V Outdoor Positioning V		Go to 1 page OK				
 System Managemen - 	This form page can display 10 👻 entrie	8				
✗ OPS Management →						
Tag Parameter						
• 08/M						
Camera Storage						
Time Management						
v1.02						

2.3.5 Authorization Code Expiration

When the above operations are completed, click to view [Real-Time Monitoring - 2D View] to

		Blue 🗸 English 🗸 🙆 a***
e • a***n	Also, automation code to a segred	
Real-Time Monitoring V		
2D View		
Device Management 🗸 🗸		
Zone Management 🗸 🗸		
Member Management 🛛 🗸		
Warning Management 🚽		
Track Playback 🗸 🗸		
Outdoor Positioning ~		
System Management 🛛 🗸		
OPS Management ~		
	X: 15.43, Yi 2.33	
0 2013-2023		deservation from from from from from from

display the "Your authorization code has expired."

Click [System Management - Authority - Get Identification Code], click [Generate identification code] and provide the identification code to the sales or after-sales staff. We will send you a new authorization code generated by the system. Please enter the new authorization code and click [OK].

UbiTrack				Blue 🗸 🛛 English 🗸	🚇 a***n 🗸
a***n A Real-Time Monitoring	Authority Management				
	Authorityinfo	Systemserial	UbiTrack-Server-001		
Device Management ~		Expiretime	2023-03-02		
📜 Zone Management 🛛 🗸		1	Get Identification Code	©	
🔒 Member Management 👻	Set Authorization	Authorization Code	MWesf1zieKZgAN9vv6qkT0g0TJvveLSu5 +V6QVvWwY74cbnCDEpbiLhesZNEGkv4	MAC address	
🕹 Warning Management 🐱		4.	f2kQ97mxe4Bl+89aYIggeYTcDYpg+3EHj +6slU7nLRKoblyx3k5yC3GhwOXO0y3X3	2, 192.168.1.8 ~	
🕈 Track Playback 🗸 🗸 🗸 🗸			5XcCQQIItZ4oZ/jYa6DLRZ8dlbNljzMl+rX BkqJwpkzfjHDXdml8vfgoZHUYY+SUybf OpfzAraTHm7nsg8+	Generate identification code	
Outdoor Positioning ~				Identification Code	
🗢 System Management 🖂			5. 🔼	Please provide the identification code when applying for the authorization code:	
• Menu				T8ojU/sQgXT9tBVAJ+c6ylrXH8BXi7EfC0vBuEiaN4zlfYrNajdmJTp4 ZTgkFsOwODTxK3LKRqRKttmg3j3+H5sZErO8Y5tGZu4cvvUPbpA yVHoYOsaWPCkxix3nJRPLzkWnnoS6gQk4+dtUsGO8f0hHSCbRT	
System Settings			3.	v0RqKYGHhwX9lyeay45afMZ+mXOLKLxc//cuv8l2Y5axMHMZNR 747kXwm9R1krK9CLXAeEDqCZO2ptcyqWIXQSu3xeE5Wn9kV6Bj HsGRW11otxsRYdlic20MGm9cw	
Authority					
✓ OPS Manadement ✓ ✓ v1.0.2					
V1.U.2					

3. Platform function

3.1 Home Function

Click the platform icon and name button in the upper left corner to enter the platform [Home].

UbiTrack									Blue	🖌 English 🗸	🙆 a***n
Real-Time Monitoring	Tag	g 117 Total		57 Iline	50 Offline		Anchor	11 Total	11 Online	0 Offline	
Device Management ~											
Zone Management V		Call	s Messages Mana	gement		<u>^</u>					
2.0 me manageman	Rule	Fence	Time	Should Counts	Actual Counts		Warning Typ	es Statistics			
Member Management 🗸	一键点名	CloudForce电子围栏3	2023-02-26 17:19:10	2	0	A2			SOS: 30.2%		
Warning Management 🐱	一键点名	CloudForce电子围栏3	2023-02-25 17:19:10	2	0	83			\mathbf{O}		
Track Playback v	一键点名	CloudForce电子图栏3	2023-02-24 17:19:10	2	0	83	0	ne-Click Rollcall: 69.8%	One-Click Rollcall		
	—键点名	CloudForce电子图栏3	2023-02-24 15:14:35	2	0	<u>.</u>					
Outdoor Positioning ~						,					
System Management 🔍	40	w	arning Messages	Statistics	Read	Unread			+ 0		
• Menu	30			_	30			+			
 System Settings 	20			_				0	•		
Authority	10	13	_	_	28			Zones Offside	Warning Statistics No Data		
OPS Management 🔍 💌	0	0 505		One	2 lick Rollcall						
v1.0.2											

3.1.1 Switch Style Mode

Click the style button in the red box, the system will display the list, select the option to switch the style.

a***n											
Real-Time Monitoring	Tag	Tag 117 67 Total Onlin			50 Offline		Anchor	11 Total	11 Online	Blue Lime gray Light green Green	
) Device Management 🗸 🗸										Orange	
Zone Management V		Call	s Messages Mana	gement		-				() Violet	
zone management	Rule	Fence	Time	Should Counts	Actual Counts		Warning Type	es Statistics		Pink Dark Blue	
) Member Management 🗸	一键点名	CloudForce电子围栏3	2023-02-26 17:19:10	2	0	63			sos	24 Dark Green	
, Warning Management 🗸	一键点名	CloudForce电子围栏3	2023-02-25 17:19:10	2	0	83			\mathbf{O}	Dark Violet	
	一键点名	CloudForce电子围栏3	2023-02-24 17:19:10	2	0	82	One-Click Rollcall: 69.8%				
Track Playback 🗸 🗸	一键点名	CloudForce电子图栏3	2023-02-24 15:14:35	2	0			_ 565			
Outdoor Positioning ~						÷					
System Management ~		w	arning Messages	Statistics	Read E	Unread			+ 。		
Menu	40				30			+			
System Settings	20							0	•		
Authority	10	13			28			70/(11-			
🗧 OPS Manadement 🗸 💆	0	13 0			2			zones Offside	Warning Statistics No	o Data	
v1.0.2		SOS		One-C	lick Rollcall						

3.1.2 Switch Language Mode

Click the style button in the red box, the system will display the list, select the option to switch the language.

										Blue 🗸 🛛 English 🔺	🕑 a***n
• a***n	1								中文	English	
Real-Time Monitoring 🗸	Тар	g 117 Total					Anchor 11 4				
Device Management 🗸 🗸											
Zone Management V		Call	s Messages Mana	gement		^					
cone management	Rule	Fence	Time	Should Counts	Actual Counts		Warning Typ	es Statistics			
Member Management 🐱	一键点名	CloudForce电子围栏3	2023-02-26 17:19:10	2	0	83			SOS: I	80.2%	
Varning Management 🗸	一键点名	CloudForce电子围栏3	2023-02-25 17:19:10	2	0	83			\mathbf{O}		
rack Playback 🗸 🗸	一键点名	CloudForce电子围栏3	2023-02-24 17:19:10	2	0	83	0	ne-Click Rollcall: 69.8%	5 One-Click Rollcall		
гаск Ріаураск 🔍		CloudForce电子图栏3	2023-02-24 15:14:35	2	0	A2 .					
Dutdoor Positioning 🗸 🗸 🗸 🗸 🗸 🗸 🗸	4					÷					
System Management 🗸 🗸 🗸 🗸 🗸 🗸	40	w	arning Messages	Statistics	Read	Unread			+ 0		
Menu	30			_	30			+ •			
System Settings	20			_					•		
Authority	10	13			28			Zones Offsid	e Warning Statistics No	Data	
DPS Management 🗸 👻	0	13 0			2			20fies Offside	e warning statistics NO	Data	
v1.0.2		SOS		One-C	lick Rollcall						

3.2 Real-time Monitoring

3.2.1 2D View

3.2.1.1 Plan

• Click the tag and anchor icon to view the detailed information window of the device.

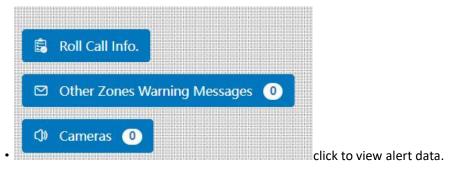
• The controller (mouse, etc.) holds down the control key and drags the plan, and the plan will follow the movement; The controller (mouse, etc.) hovers over the plan to scroll through the

scroll wheel and the plan will zoom in/out, or click the Ebutton to achieve the same effect;



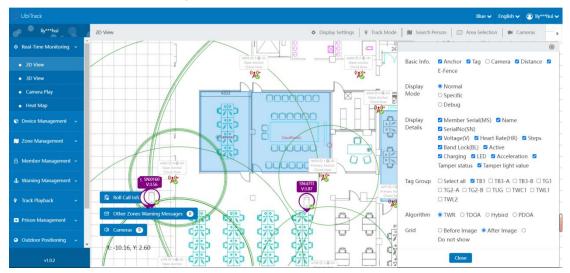
button to rotate/correct the current plan. (only the current display is rotated,

not modified from the original data)



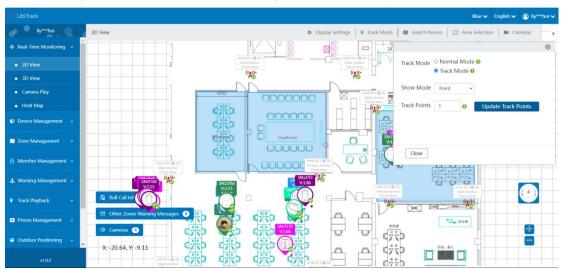
3.2.1.2 Display Settings

Users can set the view to only display device information such as anchors and tags, and can also modify the displayed personnel information, algorithm configuration, etc., and set the "distance" information to see how nearby anchors calibrate a certain tag. (if there are many tags, it is recommended to use it with "**Member Management**" to reduce the mutual interference of the calibrated coils between the tags)



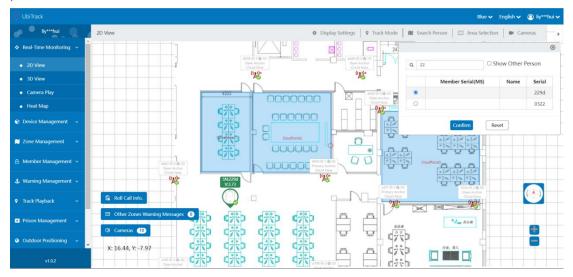
3.2.1.3 Track Mode

After setting the track mode, you can choose the number of track points you want to display, and you also need to select the number of track points you want to display on the plan in the form of "point" or "line", after configuration, the tag moving on the plan again will show the tailing effect, and the tailing situation is determined according to the number of points set.



3.2.1.4 Search Person

You can find the person or device located under the plan of the zone based on the member serial, name or tag serial, and uncheck "Show Other Person" when selected to observe only the selected person or device.



3.2.1.5 Area Selection

Multiple zone plan information is configured in **[Zone Management - Zone]**, toggle the display of related content in different areas here.



3.2.1.6 Cameras

The camera added in [Device Management - Camera] will be displayed here, and the real-time

video window on the left will pop up after checking, if there is no relevant camera data, it will be empty data here.

UbiTrack		Blue ♥ English ♥ 🙆 liy***hui ♥
🕐 🃍 liy**hui 🔍 👔	2D View	🗢 Display Settings 🛛 🛛 Track Mode 🛛 🕅 Search Person 🛛 🖽 Area Selection 🖉 🗰 Cameras
◆ Real-Time Monitoring ~	Sec. 0	
2D View	2023-03-09 13:38:24	
3D View		1000 (c) 3 (c)
Camera Play		Primary Anchor Olure Now 2
Heat Map		
Device Management ~		
関 Zone Management 🗸 🗸	Canera 01	
A Member Management ~		
🛃 Warning Management 🗸	Ľ	
	ab52@4@20 Slave Anchor Ohat Now	
Prison Management ~	(1)	
Outdoor Positioning ~	V4.07	V3.52 SN55 SN55 SN55 SN55 SN55 SN55 SN55 SN55
● System Manageme	Ol Cameras:	
🖌 ODS Mananement 🐭 🎽	X: 9.52, Y: 2.86	
v1.02		

3.2.2 3D View

- Multiple zone plan information is configured in [Zone Management Zone], toggle the display of related content in different areas here.
- Users can set the 3D view to display only the anchor, tag and other information, and can also modify the positioning method, tag status and size through the configuration.



3.2.3 Heat Map

Click **[Parameters]** in **[Real-Time Monitoring - Heat Map]** to prompt the filter window, and users can view all tags or individual tag stays in a certain period of time and area through configuration

items such as filter time, tag, and area.

UbiTrack	Blue 🗸 English 🗸 🌒 liy***hui 🗸
🕐 🎴 liy***hui 🔍	Heat Map 🕮 Parameter ,
♦ Real-Time Monitoring <	
• 2D View	
• 3D View	Start Time 2023-02-28 15:43 (+0000) ■
Camera Play	End Time 2023-02-28 16:43 (+0600)
Heat Map	Serial Please Select A device /Removing c 👻
Device Management ~	
📜 Zone Management 🛛 👻	
용 Member Management ~	
🛃 Warning Management 🗸	
9 Track Playback 🗸 🗸	
Prison Management ~	
 Outdoor Positioning 	
v1.02	

3.3 Device Management

3.3.1 Anchor

[Device Management - Anchor] can change the anchor's zone, primary/ slave anchor, clock synchronization and other configuration items according to user needs. The [C Edit], please refer to [2.3.3 Anchor Configuration]; [C Advanced Settings] [IP Settings] please refer to [2.1.2 Network Configuration].

3.3.2 Tag

 In [Device Management - Tag], users can find a certain or type of tag through filter items such as tag serial, member name, range type, etc., and can delete the current display result and set the tag time;

liy***hui																
Real-Time Monitoring 🗸 📋	Tag Manag	ement														
	Q Ser	ial/Member Name		Tag Category	~	Online	or Not		✓ Static I	N 🖲 Yes 🗆 No	Static FN	Active FN 🔹 Y		tive FN C? Delete all	Set Tag Time	
Device Management v	Serial ©	Tag Category \$	Icon \$	Member Name						Range Type 🏼	Firmware ¢	Static FN @	Active FN .	Last Communication Time \$	Operating	
Anchor					4		,	8	*						0 111 頁 ≔	~
Tag	5678	TB3-A			3.88V	11	Inactive	Not Charging		TWR	UT_TB3_V0.2.4	5000	500	in a few seconds	⊘ : 111 : 1 : 1 : 1 : 1	Ш
Tag Group	44b1	TB3-A			4	**	*	8 Not	*	TWR	UT_TB3_V0.2.1	5000	500	in a few seconds	Ø 188 🗐 💷	Û
Camera					3.47V		Inactive	Charging	LED OFF							
Camera Transcoding	905d	TWC1	0		4 4.01V	86bpm	112	# Inactive	Not	TWR	UT-TWC1_V2.0.9	5000	500	in a few seconds	- 18 - 188 - E - H	= 1 1
Dvr	0117	TB3-A			4		4	8	*	TWR		5000	500	in a few seconds	Ø 181 € ≔	-
TagsChange	0117	103-A			3.61V		Inactive	Not Charging		IWK	UT_TB3_V0.2.1	5000	500	in a rew seconds	2 100 EV :=	Ш
Zone Management 🔍 🗸	c98b	TWC1	0		4 3.61V	e 79bpm	#1 51	* Inactive	8 Not Charging	TWR	UT-TWC1_V2.0.9	5000	500	in a few seconds	* 0 111 8 1	
Member Management 🤟	eDeS	TG2-A	0		4.01V	rt 4	# Inactive	8 Not Charging	ED ON	TWR	UT_TG2_V0.2.0	5000	500	in a few seconds	⊘ (#) () :=	Û
Warning Management V	9698	TG2-A	I		4 4V	f1 17	# Inactive	8 Not Charging	LED ON	TWR	UT_TG2_V0.2.0	5000	500	in a few seconds	Ø ₩ ₿ ≔	Û
Track Playback 🗸 🦕	97ba	TG2-A	I		5 4V	!! 172352	# Inactive	8 Not Charging	EED ON	TWR	UT_TG2_V0.1.4	5000	500	in a few seconds	⊘ : ₩ : 🗐 : ≔ :	Û
	48ba	TB3-A			5.71V	"	Active	8 Not Charging	LED OFF	TWR	UT_TB3_V0.2.1	5000	500	in a few seconds	Ø (₩ (₿))≡	Û
	a08a	TB3-A			4 3.64V		#	8 Not Charging	LED OFF	TWR	UT_TB3_V0.2.1	5000	500	in a few seconds	⊘ (# 5 ≔	Û

- Click the [Device Management Tag Measure Heart Rate]. The platform will send the command to measure heart rate to the tag, and the test results will be fed back to the positioning platform. (This function is limited to Wristband)
- Click the [Device Management Tag Click the [Device Management Tag Click the [Device Management Tag Click the edit window, which allows you to change the tag category and add a tag image.

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Real-Time Monitoring 🗸 🍵	Tag Manag	lement															~	
E Device Management 🗸	Q Set	rial/Member Name	1	ag Category	×	Online	or Not		Static F	N 🖲 Yes 🔿 No	Static FN A	ctive FN 🔹 Yes	O No Activ	e FN 🖉 Delete all		iet Tag Tir	ne	F.
	Serial #	Tag Category ©	Icon ¢	Member Name	Ed	lit						Static FN 🗢	Active FN	Last Communication Time \$		Opera	ting	
Anchor	5678	TB3-A			s	erialNo	5678					5000	500	an hour ago	Ø	181 E		Î
• Tag						Tag												
Tag Group	44b1	TB3-A			6	ategory	TB3-A				~	5000	500	an hour ago	0	989 E) =	1
Camera	905d	TWC1	0					6	elect The Pict			5000	500	an hour ago		5 989	E :	-
Camera Transcoding Dvr							JPG/			d,Max-Size 300KB		5000	200	annourago	-y (C	2 1 8 9 8	EV	
TagsChange	0117	TB3-A						Mod	-	Cancel		5000	500	an hour ago	Ø	989 E) :=	Đ
								Contraction									-	
🖉 Zone Management 👒	c98b	TWC1	0		4 3,61V	79bpm	51	Inactive	Net Charging	TWR	UT-TWC1_V2.0.9	5000	500	an hour ago	1-10	5 888		= 0
3 Member Management ~	#OeS	TG2-A	0		4 4.01V	11 4	ي Inactive	8 Not Charging	ILED ON	TWR	UT_TG2_V0.2.0	5000	500	an hour ago	2	989 E) :≡	Û
Warning Management ~	9e98	TG2-A			4 4V	#1 17	# Inactive	8 Not Charging	LED ON	TWR	UT_TG2_V0.2.0	5000	500	an hour ago		889 E) :=	B
таск наубаск 🔍 🧸	970a	TG2-A			4 4V	#1 172352	ير Inactive	R Not Charging	TED ON	TWR	UT_TG2_V0.1.4	5000	500	an hour ago	0	989 E) :=	Û
	485a	TB3-A			4 3.71V	ņ	* Active	R Not Charging	TED OFF	TWR	UT_TB3_V0.2.1	5000	500	an hour ago	Ø	989 E) :≡	Û
	a08a	TB3-A			4 3.64V	n	#	R Not	*	TWR	UT_TB3_V0.2.1	5000	500	an hour ago	Ø	989 E) ⊨	8

• Click [Device Management - Tag - View Tag Parameter Info] to view the inherent parameter information of the tag itself, such as the serial , range type, and LED status of the tag.

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• Real-Time Monitoring 🗸 📫	Tag Manag	lement									
3 Device Management 🖂	Q Se	rial/Member Name	Ta	ig Category	Online or Not	Static FN 🔮 Yes 🔿 No	Static FN A	Active FN 🔹 Yes	O No Activ	e FN	Set Tag Time
	Serial O	Tag Category ©	Icon ¢	Member Name	View Tag Parameter Info.		36	Static FN 🔹	Active FN 0	Last Communication Time	Operating
Anchor	5678	TB3-A			SerialNo	5678		5000	500	an hour ago	
• Tag					3 Range Type						
Tag Group	4461	TB3-A				TWR		5000	500	an hour ago	
Camera					3 LED	LED OFF					
Camera Transcoding	905d	TWC1	0		a Static FN	5000	Unit(ms)	5000	500	an hour ago	🖉 🖉 🔛 🗐 💷 1
• Dvr		T83-A			Active FN	500	Unit(ms)	5000	500	an hour ago	⊘ (8) () := ()
TagsChange					a Sampling Interval	10800	Unit(s)			annoorago	C 1991 CV 1 C
Zone Management 👒	c98b	TWC1	0		(Battery)			5000	500	an hour ago	
Member Management 🗸					8 Sampling Interval (Heart Rate)		Unit(s)				
member management. V	e0e5	TG2-A			Measurement duration		Unit(s)	5000	500	an hour ago	
Warning Management 🛩			a		(Heart Rate)						
Track Playback	9e98	TG2-A			Show Password Page	Do not show		5000	500	an hour ago	
Hack Playback	97ba	TG2-A			Time Zone	8		5000	500	an hour ago	0 ₩ 0 = 0
						Cancel					
	485a	TB3-A						5000	500	an hour ago	Ø 189 🗊 ≔ 🖻
					1	1007					
	#363	TB3-A			4 11 A Not 3.64V Inactive Charging	TWR	UT_TB3_V0.2.1	5000	500	an hour ago	

• Click [Device Management - Tag - View Tag Details], you can view the basic information of the tag, member information and other content, and switch to [Rules Logs] to view which warning messages have been triggered by the tag, and [Data Export] can export all the data under the set time period of the tag.

• liy**/hui 0	Return								
Real-Time Monitoring ~		Member inform	antion			Tag information			ence to which the tag belongs
Device Management 🔍		Member Serial(MS):	0007	Serial:	4349	Creating Time:	2023-02-21 15:00:30		Not in any E-Fence
Anchor	(TA	Name:	name	Tag Status:	Online	Update Time :	2023-03-01 14:29:35		
Tag	20	Gender:	Male	Tag	TWC1	Last Communication Time:	2023-03-01 14:29:35		
Tag Group				Category:	IWCI	Last Communication Time:	2023-03-01 14:29:35		
Camera		Age:	18					*	
Camera Transcoding	Charts Rules	Logs Data Export							
Dvr	Start Time 20	023-02-28 14:29 (+0800)	End	Time 2023-03	-01 14:29 (+0)	300) 🗮			
TagsChange									
Zone Management 👒	Heart Rate 68	B bpm			Voltage	3.8 .		Active State Active	2
Member Management ~	80				3.9		1	Active	
					3,85		Bellininina and		
Warning Management ~	70 -				18	1 1111111111111111	A STATE OF TAXABLE PARTY.		
Track Playback 🗸 🖕									
	60	5 03-01 14:00 03-01 14:05 03-1	01 14:10 03-01 1	4:15 03-01 14:20	8.75 02-28	16:00 02-28 20:00 03-01 00:00 03-01	0400 03-01 08:00 03-01 12:00	02-28 18:00	03-01'00:00 03-01'06:00 03-01'12:00
	Charging No	t Charging			Steps	692			
					750				
		2.							

 Click [Device Management - Tag - E Device Serial Historical Data] to view who has worn the tag.

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e liy**hui				
♦ Real-Time Monitoring ~	4349:Device Serial Historical Data			Return
🖗 Device Management 🗸	Member Serial(MS)	Name	Start Time	End Time
Anchor	0007	name	2022-12-01 17:25:33	Now
• Tag	0003	aaa	2022-11-30 15:17:21	2022-12-01 13:25:41
Tag Group	< 1 > Total 1 pages, Go to 1 page OK			
Camera				
Camera Transcoding	This form page can display 10 🗸 entries			
• Dvr				
TagsChange				
Zone Management 🗸 🗸				
З Member Management ~				
, Warning Management ~				
Track Playback 🗸 🗸				
,				

3.3.3 Tag Group

• Click [Device Management - Tag Group - Add] to display the following interface, fill in the name, member, and group type and click [OK] to add a new set of tag groups, which can be used to distinguish the warning objects when alerting

			Blue 🗸 English 🗸 🙆 lly***
Tag Group Management			
Name ©		Member	Operating
1000	Add		
100	Name	•	
-	Member	•	2 - 四 - 會 - 會
< 1 > Total 1 pages, Go t	Group Type	•	
	e beite		
This form page can display 10 🛩 entries	OK	el	
×.			

• Click [Device Management - Tab Group - Beach tag under the tag group.

						Blue 🗸 English 🗸 🔘 liy***h
liyaaahui						
I-Time Monitoring 🗸	officeMember					Return
vice Management 🔍	Q Serial	Person N	ime	Tag Category 👻		
hor	Serial ©	Tag Category @	Icon ¢	Person Name ¢		UWB Last Communication Time ●
Group	4349	TWC1	0	name	5 💙 11 🖈 Not 3.8V 685pm 844 Active Charging	a few seconds ago
iera	oboa	TUG	0		ケーチード 作 3.87V Inactive LED.ON 11	a few seconds ago
ra Transcoding						
	< 1 3	Total 1 pages, Go to 1	page OK			
Change	This form page can di	isplay 1000 🛩 entries				
Management 🗸						
ber Management 🗸						
ing Management 👻						
Playback - 🖕						
v1.0.2						

 Click [Device Management - Tag Group - Historical Data] to view the existing tag members and past tag members information of the tag group.

UbiTrack			Blue 🗸 English 🗸 🙆 liy###hul 🗸
🕐 🔍 liyawahui			
♦ Real-Time Monitoring ~	office Historical Data		Return
Device Management ~	Device Serial @	Start Time ¢	End Time ©
Anchor	4349 060a	2023-03-01 14:53:10	Now
• Tag	4349 060a 73db	2023-03-01 14:53:04	2023-03-01 14:53:10
Tag Group	0b0a 4349	2023-03-01 14:49:42	2023-03-01 14:53:04
Camera	***73***(Deleted)	2022-12-06 17:03:46	Now
Camera Transcoding	< 1 > Total 1 pages. Go to 1 page OK		
• Dvr	This form page can display 10 🗸 entries		
TagsChange			
📕 Zone Management 🔍			
8 Member Management ~			
🕹 Warning Management 🗸			
🕈 Track Playback 🗸 🗸			
v1.0.2			

3.3.4 Tag Category

[Device Management - Tag Category] can add, delete, modify and check different tag category, the system will give the existing hardware tag category by default, it is recommended not to modify the default category, because after turning on "Automatically modify Tag Category" in [System Management - System Settings], the tag is associated to the platform, and the system will screen according to the tag firmware information and the default category here.

If users need to distinguish the tag category by themselves, they can disable "Automatically modify Tag Category" in **[System Management - System Settings]**, and add a category to [Device Management - Tag Category Management] for independent management.

e • a**n • .				
> Real-Time Monitoring ~ Tag C	ategory Management			
Q	+ Add	Tag Category as basic data, added by the system administrat	tor, please edit and delete carefully	
7 Device Management 🗸	Name	Icon	Color	Operating
Anchor	T81			Ø - 💼
• Tag				
Tag Group	TB3-A	ō		
Tag Category	TB3-B			0
Camera				
Camera Transcoding	TG1			
Dvr	TG2-A	(I)	_	0 1
TagsChange				0.18
Smart Sensor	TG2-8		_	
🛛 Zone Management 🗸 🗸	TUG	0	_	
Member Management ~	100	7		018
, Warning Management ~	TWC1			
, warning Management ~	TWL1	[The	_	2 💼
Track Playback 🗸 🗸		B		
Outdoor Positioning ~	TWL2	Ð		
	Total 1 pages, Go to 1			

3.3.5 Camera, Camera Transcoding and Dvr (Only support some Hikvision products)

(1) Enable the default transcoding service in **[Device Management - Camera Transcoding]**, or click Add to add the user's own transcoding service according to the rules and enable it.

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e • ama • •									,	
♦ Real-Time Monitoring ↓	Camera Transcoding Management									
Device Management ~	Q +44									
	Name	IP Address	Port	Port 2	WebSocket Port	External URL	External Port	External WebSocket Port	Enabled/Disabled	Operating
Anchor	Camera Transcoding Server1	192.168.1.8	8081	8008	8082	192.168.1.8	8008	8082	ON	2 1
• Tag										
Tag Group	< 1 > Total 1 pages. Go to	page OK								
Tag Category	This form page can display 10 🗸 entries									
Camera										
Camera Transcoding										
Dvr										
TagsChange										
Smart Sensor										
📜 Zone Management 🗸 🗸										
A Member Management ~										
🕁 Warning Management 🗸										
Track Playback										
Outdoor Positioning ·										
v1.0.2										

② Click **[Device Management - Camera - Add]**, Fill in the required fields such as name and zone, and associate the enabled transcoding service to the new camera, if you want to save the camera data content, you can add a hard disk recorder and link it to the specified camera (see step 4 for details), if the camera does not need the storage function can be used normally.

Name Camera Type Bill PTZ Bill PTZ Bill Normal Bill Bill Normal Total 1 pages, Go to 1 p	 Show Pass IP Add 192.168. 192.168. 192.168. 192.168. OK 	Add	Name Pasai Select Normal IP Address	• • •	Lamera Transcoding	Enabled/Disabled ON ON ON	4 4 4	Operating (1) (2)
	IP Addi 192.168. 192.168.	Add Name Zone Camera Type	Please Select Normal	~ 0 ~	Camera Transcoding	ON	4	() () () () () () () () () () () () () (
Name Camera Type Bill P1Z Bill Normal Bill Normal Total 1 pages, Go to 1 p	IP Addi 192.168. 192.168.	Add Name Zone Camera Type	Please Select Normal	~ 0 ~	amera Transcoding	ON	4	000111110
盟告記2 Normal 語参礼3 Normal Total 1 pages. Go to 1 p	192.168 <i>.</i> 192.168.	Name Zone Camera Type	Please Select Normal	~ 0 ~		ON	4	© (0 1 5
道徳机3 Normal Total 1 pages, Go to 1 p	192.168.4	Zone Camera Type	Please Select Normal	~ 0 ~				© (0) 💼 (5)
道徳机3 Normal Total 1 pages, Go to 1 p	192.168.4	Zone Camera Type	Normal	~				
Total 1 pages, Go to 1 p					-	ON	4	© © 🗑 💿
	page OK	IP Address	IP Address	0				
		Port O	554					
y 10 🗙 entries		Camera Play Address 😣	/h264/ch1/main/av_stream					
		Camera Transcoding						
		Lisemame	-					
			Local Time Format	~				
		DVR	No Need	*				
		Face Recognition	No need	~				
		ОК	Cancel					
			Cemere Transcoding Username Passion Pagback Time Format DVR Tace Recognition	Cemera Transcoding Utername Password Pasyback Time Format UCR Tace Recognition No need	Camera Transcolling Utername Utername Passord Pagesct Time Format V Face Recognition No need V	Cernere Transcoding Usernane Passori Payback Time Format DKR Tace Recognition No need	Cemera Transcoding Ukername Ukername Password Pispback Time Format UKr No Need Tace Recognition No need	Camera Transcooling Username Passooli Passooli Passooli Passooli DVR No Need Von No need

③ Click **[Device Management - Camera** - **PTZ Management]**, you can view the real-time picture of the camera, operate the camera to rotate the lens, etc. (The camera needs to have PTZ function)

Ubilirack				Blue ✔ English ✔ (a
PTZ Manag	gement				-
Real-Time Monitoring ~			The current PTZ Management function only sug	oports Hikvision products, and does not support all PTZ related services	Return
Device Management 🐱	Camera1	PTZ Manageme			
Anchor	23-03-01 17:13:28	5 ∧ 2 ⊕	Θ		
Tag	2	2~5			
Tag Group	A DESCRIPTION OF A DESCRIPTION OF	ID	Name		- 1
Tag Category		1	one		
Camera Camera Transcoding	8.00	2	two		
Dvr		3	three		
TagsChange		4	four		
Smart Sensor		Camera 03	five		
Zone Management 🖂					
Member Management 🐱		6	six	I 🗄 I 💼 I 🗹	
Warning Management 🗸		7	seven		
		8	eight		
Track Playback 🗸 🗸		9	nine		
Outdoor Positioning 👻		10	ten		
v102					

④ Click **[Device Management - Dvr - Add]**, fill in the required fields such as name and IP address and then add the function to the camera management.

UbiTrack								ⓐ a ^{tst} n ♥
er * ann @ _	Dvr Management							
♦ Real-Time Monitoring	Q	+Add Sho	w Password				 	
Device Management ~	Name	IP Address				Enabled/Disabled	Operating	
Anchor			Add					
• Tag			Name	Name	0			
Tag Group	This form page can display 10	entries	IP Address	IP Address	0			
Tag Category			Port O	554				
Camera			Username	Username	0			
Camera Transcoding			Password	Password	0			
Dvr TagsChange								
Smart Sensor				OK Cancel				
🔊 Zone Management 🗸								
A Member Management ~								
👃 Warning Managerrent 🗸 🚽								
🗣 Track Playback 🗸 🗸								
 Outdoor Positioning ~ 								
v1.0.2								

3.3.6 Change Tag

① Open **[Device Management - TagsChange]**, and enter the tag number of the person tag you want to replace on the left side (The four-digit tag serial is entered repeatedly, a total of 8 digits need to be entered as shown in the picture or scanned directly with a code gun)

UbiTrack		Blue 🗸 English 🗸 🔕 liy***hui 🗸
🕐 🎴 liy***hui 🖉		
♦ Real-Time Monitoring ~	Change Tag	Fill in the Tag Setial already selected by the Member on the left, and fill in the Tag Setial that are not select on the right, and the Member wito have completed the operation will select the Tag on the right Please use a currant for and the QC does the Tag
Device Management ~		For manual input, enter the 8-digit Tag Serial
Anchor	Serial	Serial
• Tag		
Tag Group		
Camera		
Camera Transcoding	Serial:	Serial:
• Dvr	Member Serial(MS):	Member Serial(MS):
TagsChange	Name:	Name:
🛤 Zone Management 🗸 🗸	Gender:	Gender:
	Age: Member Category:	Age: Member Category:
8 Member Management ~	Warning Level:	Warning Level:
🕹 Warning Management 🗸		
		Reset
Track Playback ~		_
🗷 Prison Management 🗸 🗸		
• • • • • • • • • • • • • • • • • • • •	*	
v1.02		

② Enter the tag serial on the right side that is not worn by personnel, the number of digits and other rules are the same as above, after entering, it will be replaced successfully and the following prompt will pop up. (Click **[Reset]** will clear the content of the input box on both sides)

3.3.7 Smart Sensor

[Device Management - Smart Sensor] can view the data of the smart sensor related to the UbiBot platform associated with the positioning platform and click the [C Edit] to modify the area to which the sensing device belongs.

3.4 Zone Management

3.4.1 Zone Management

3.4.1.1 Add New Zone

Click [Zone Management - Zone - Add], for related functions, please refer to [2.3.2 Plan Ratio Configuration].

3.4.1.2 Calibrate The Smart Sensor Location

				Blue 🛩 Engl	sh 🗸 🙆 liy***hu
• liy***hui • 7000 k	inagement				
Real-Time Monitoring ~	+ Add				
Device Management	Name	Zone Setting	Sorting	Operating	
Zone Management -	CloudForce		99	Calibrate The Smart Sensor Location	
Zone	1 > Total 1 pages. Go to 1 page OK	milit			
E-Fence					
Member Management - This for	page can display 10 💙 entries				
Warning Management 🛛 🛩					
Track Playback 🗸 🗸					
Prison Management 🗸					
Outdoor Positioning v					
ystem Management 🔍					
5					
OPS Management					

② In **[Device Management - Smart Sensor]**, the smart sensor associated to the current zone will be displayed at the (0,0) coordinate point waiting for calibration, or the smart sensor that is not associated to the current zone will be displayed on the right side waiting for association.

③ Click the smart sensor that needs to be calibrated, the platform will prompt the corresponding window (as shown in the figure), click **[Set Smart Sensor Location]** and slide the controller (mouse, etc.) to move to the location you want to calibrate, click the platform again will display the prompt window again, click **[Save Smart Sensor Location]** to successfully calibrate a smart sensor location, and so on for the rest of the smart sensor location.

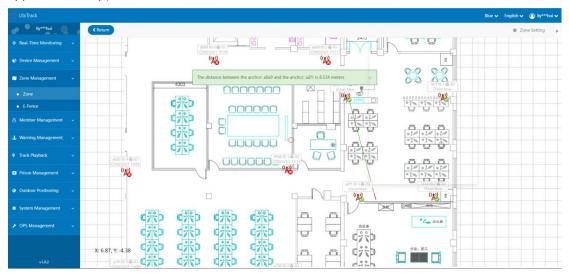
3.4.1.3 Anchor Location self-calibration

① Click [Zo	ne Management - Zo	ne - 🔀 Anchor lo	cation self-cal	ibration].
💮 UbiTrack				Blue ↓ English ↓ 🙆 liy***hui ↓
🕐 📍 liyssehui	Zone Management			
◆ Real-Time Monitoring →	Q +Add			
Device Management v	Name	Zone Setting	Sorting	Operating
🞽 Zone Management 🗸 🗸 🗸	CloudForce		99	Anchor location self-calibration
Zone E-Fence	office	E F	0	0 8 6
● E-Fence A Member Management ~	< 1 > Total 1 pages, Go to 1 page	ок		
🕁 Warning Management 🗸	This form page can display 10 🗸 entries			
9 Track Playback ~				
Prison Management ~				
 Outdoor Positioning ~ 				
System Management ~				
🖌 OPS Management 🗸 🗸				
v1.0.2				

② Select a anchor in the plan as the parent anchor, and the platform will pop up as shown below. (This anchor will become the origin anchor, please ensure the accuracy of the position of the anchor on the plan.)

		Blue 🗸	English 🗸	🔘 liy***hui 🗸
🕐 🃍 Ily***hui 🔍 👔	(Return		O Zor	ne Setting
◆ Real-Time Monitoring →				
 Device Management ~ 	The distance between the two anchors is not calculated × 2475			
🔰 Zone Management 🔍 🗸				
• Zone				
E-Fence				
👃 Member Management 🗸 👻				
🕹 Warning Management 🔍				
Track Playback				
🖬 Prison Management 🗸 🗸				
 Outdoor Positioning ~ 				
● System Management 🗸				
✤ OPS Management ~				
°v1.02				

③ Then select a anchor that is not the parent anchor for click operation, the platform will pop up the following prompt, and the controller (mouse, etc.) will become a fixed-length line segment. (Self-calibration requires the firmware versions of both anchors to support this function to be applied normally.)



④ After control the line segment points to a certain party on the plan, click then the anchor icon will be calibrated to the end of the line segment and the platform will prompt the window as shown below, click **[Save Anchor Location]** to complete a self-calibration.

UbiTrack		Blue 🗸 English 🗸 🙆 liy***hui 🗸
🕐 🃍 liy**hui 🔍 👔	< Return	O Zone Setting
◆ Real-Time Monitoring →		
Device Management ~		
📜 Zone Management 🛛 🗸		
• Zone		
E-Fence		
👃 Member Management 🔍 👻	3/1 15:10 ((e))	
🛃 Warning Management 🚽 👻	Ali Save Archord Cocarlos	
Track Playback		
Prison Management ~		
Outdoor Positioning ~		
 System Management ~ 		
🖌 OPS Management 🦂 🗸		
v1.0.2		

3.4.2 E-Fence Management

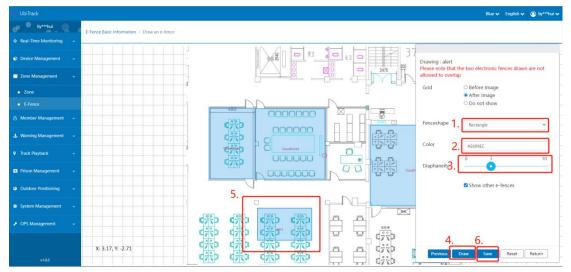
① Click **[Zone Management - E-Fence - Add]** to enter the "E-Fence Basic Information" interface.

🕖 UbiTrack			Blue 🗸 English 🗸 🙆 liy***hui 🗸
e liy***hui	nce Management		
◆ Real-Time Monitoring ✓			
Device Management ~	Name	Zone	Operating
🗑 Zone Management 🗸 🗸	CloudForce1	CloudForce	() () () () () () () () () () () () () (
• Zone	CloudForce2	CloudForce	\odot + $\overline{\mathbf{H}}$ + \odot
E-Fence	CloudForce3	CloudForce	Ø ⊨ ₩ ⊨ ∞
) Member Management v	1 > Total 1 pages, Go to 1 page OK		
Warning Management 🗸	_		
Track Playback ~	form page can display 10 💌 entries		
🛾 Prison Management 🗸 🗸			
Outdoor Positioning ~			
System Management ~			
• OPS Management ~			
v1.0.2			

② Select the zone, fill in the name, and click [Save & Next Step].

UbiTrack			Blue 🗸	English 🗸) liy***hui 🗸
🕐 🎴 liy***hui 🔍	E-Fence Basic Information / Draw an e-fence				
◆ Real-Time Monitoring ~					
Device Management	Zone CloudForce				
📕 Zone Management 🛛 🗸	Name Name	0			
• Zone	Save & Next Step Save & Return Next Step Return				
E-Fence					
🔒 Member Management 🗸					
🕁 Warning Management 🚽					
Track Playback ~					
Prison Management.					
Outdoor Positioning ~					
• System Management •					
✤ OPS Management ~					
v1.0.2					

③ First select the fenceshape, "Rectangle" and "Circle" are provided by default, and irregular shapes can choose "Polygon" to draw; Secondly, select the color and diaphaneity of the fence, click **[Draw]**, the controller (mouse, etc.) will change into the cross style as shown below, you can start drawing in the plan (During the drawing process or without saving, click **[Reset]** to restart the drawing); Finally, click **[Save]** to finish.



3.5 Member Management

3.5.1 Member

 Click [Member Management - Member - Add], fill in the required items member serial and member category etc., you can add a new member information, and member can be associated with tags, associated with warning objects, etc.

🤊 🤚 ily***hui 🔍	Member Management								
♦ Real-Time Monitoring ~	Q Member Serial(MS)//	Name +Add	+Data Import						
Device Management ~	Member Serial(MS) \$	Name ¢	Add		×	rning Level 🗢	Creating Time \$	Update Time 🗢	Operating
🖉 Zone Management 🗸 🗸	0001		Member Serial(MS)	Member Serial(MS)	0	1	2022-11-15 08:46:40	2022-12-09 12:27:27	
3 Member Management 🗸	0002		Device Serial	Please Select A device /Removing device -		1	2022-11-15 08:51:34	2022-12-01 13:45:35	0.10.00
Member	ubitrackE28068900001	E2806890000000025E61	Member	Please Select 🗸	0	0	2022-11-29 14:15:41	2022-12-01 14:15:14	Ø : := : 🗊 : 🖻
Member Group	ubitrack0004	1000	Category	Name	0	0	2022-11-29 15:26:12	2022-12-01 14:30:38	∅ : := : @
🗜 Warning Management 🗸 🗸	0007	name	Gender	Please Select V	0	0	2022-12-01 17:25:33	2022-12-01 17:25:33	Ø : := : @ : =
Track Playback v			Age	Age	0	0	2022+12-12 10:38:30	2022-12-12 10:38:30	
Prison Management 🗸 🗸	0003		Warning Level	Warning Level	0	1	2022-12-22 13:23:20	2023-03-01 14:38:58	∅ : := : @
Outdoor Positioning 🗸 🗸	0004			Select The Picture		100	2022-12-22 13:23:20	2022-12-23 14:33:03	
System Management 🗸 🗸	0005		L. L. L.	PG/PNG Format Supported,Max-Size 300KB		2	2022-12-22 13:23:20	2022-12-23 12:37:13	0
♥ OPS Management ~	ubitrack0005	ubitrack0005		Face information		1	2022-12-30 10:55:27	2022-12-30 10:55:27	
	< 1 > Total	1 pages, Go to 1 page		OK Cancel					
	< 1 > Total	1 pages, Go to 1 page		Cancel					

• Click [Member Management - Member - E Device Serial Historical Data] to see what tags the member has worn and when.

			Blue 🗸 English 🗸 🙆 liy***hui
🕐 🎴 ily***hui 🖉	E280689000000025E61:Device Serial Historical Data		
♦ Real-Time Monitoring ~	E280689000000025E61:Device Senai Historical Data		Return
Device Management ~	Device Serial 🕈	Start Time ≑	End Time 🕈
👏 Zone Management 🛛 🗸	tevice senai €	2022-12-01 14:42:02	Now
- zone management	dcb5	2022-12-01 14:41:23	2022-12-01 14:42:02
👃 Member Management 🛛 👻	< 1 > Total 1 pages, Go to 1 page OK		
Member	iotal i page ok		
Member Group	This form page can display 10 🗸		
🕹 Warning Management 🛛 🗸			
Track Playback v			
🗴 Prison Management 🗸 🗸			
 Outdoor Positioning ~ 			
 System Management ~ 			
P OPS Management ~			

• Click [Member Management - Member - Tag Information] to view the tag information, member information, etc., and switch to the [Data Export] interface to export all the data under the set time period of the tag.

								Blue 🗸 English 🗸 🔘 liy***
🔍 liy***hul 🔍 👔	Return							
Real-Time Monitoring 🖌								
Device Management		Member info	rmation			Tag information		E-Fence to which the tag belongs
		Member Serial(MS):	0007	Serial:	4349	Creating Time:	2023-02-21 15:00:30	Not in any E-Fence
Zone Management 🗸 🗸		Name:	name	Tag Status:	Online	Update Time :	2023-03-02 16:23:58	
Member Management 🛛 👻		Gender:	Male	Tag Category:	TWC1	Last Communication Time:	2023-03-02 16:23:57	
Member								•
Member Group	Charts Data E	xport						
. Warning Management 🛛 🗸	Start Time 20	023-03-01 16:23 (+0800	0	End Time 2	023-03-02 16:2	(+0800)		
Track Playback 🗸 🗸	Heart Rate 70) hom			Voltage	3.67 .		Active State Inactive
Prison Management 🗸 🗸	100				3.75			Active
Outdoor Positioning ~	80			_	37	mil	Andready	
System Management 🗸 🗸	60		V		3.65			
OPS Management 🚽	40 03-02 14:30	03-02 15:00 03-0.	15:30 03-0	2 16:00	3.6	03-02 10:00 03-02 12:00	03-02 14:00 03-02 16:00	Inactive 03-02 10:00 03-02 12:00 03-02 14:00 03-02 16:00
	Charging NO	t Charging			Steps	3251		

3.5.2 Member Group

3.5.3 Member/Member Group Template Import

p 🔍 liy***hul 🔍 🖉											
Real-Time Monitoring ~	Member Management	Name +Add	+Data Im								
Device Management 🗸 🗸	Q Member Serial(MS)/	Name ¢	Avatar e		Gender \$	Age ¢	Member Category \$	Warning Level \$	Creating Time \$	Update Time ¢	Operating
🛭 Zone Management 🛛 🗸	0001		ADEA	0003	Male	26	Police	1	2022-11-15 08:46:40	2022-12-09 12:27:27	0
Member Management 🗸 🗸	0002	100	R	b4e5	Male	26	Police	1	2022-11-15 08:51:34	2022-12-01 13:45:35	0 : := : :: : :
Member	ubitrackE28068900001	E280689000000025E61		f71d	Female	1	Staff	0	2022-11-29 14:15:41	2022-12-01 14:15:14	0
Member Group	ubltrack0004	1000			Male	18	Staff	0	2022-11-29 15:26:12	2022-12-01 14:30:38	Ø : III : 🗎
→ Warning Management →	0007	name		4349	Male	18	Staff	0	2022-12-01 17:25:33	2022-12-01 17:25:33	0
Track Playback 🗸 🗸				ddb5	Male	21	No Category	0	2022-12-12 10:38:30	2022-12-12 10:38:30	0 := 0 0
Prison Management 🗸 🗸	0003		1		Male	30	Police	1	2022-12-22 13:23:20	2023-03-01 14:38:58	Ø : := : 0
Outdoor Positioning ~	0004		-	b83c	Female	35	No Category	100	2022-12-22 13:23:20	2022-12-23 14:33:03	∅ : ≔ : 🗑 : 🖨
System Management 🛛 🗸	0005	100	P	4348	Male	40	Police	2	2022-12-22 13:23:20	2022-12-23 12:37:13	0
OPS Management	ubitrack0005	ubitrack0005	R		Male	30	Police	1	2022-12-30 10:55:27	2022-12-30 10:55:27	
	< 1 > Total	1 pages, Go to 1 page	ок								

① Click [Member Management - Member/ Member Group - Data Import]

② Click **[Download template]**, download the template locally.

UbiTrack											English 🗸 🙆 liy***hu
P liy***hul	Member Management										
 Real-Time Monitoring ~ 	Q Member Serial(MS)/	Name +Add	+Data Impor	•							
Device Management ~	Member Serial(MS) \$	Name \$	Data Impor				×	rning Level 🗢	Creating Time \$	Update Time 🗢	Operating
🖉 Zone Management 🗸 🗸	0001	100	≜ Downloa	d template				1	2022-11-15 08:46:40	2022-12-09 12:27:27	
3 Member Management 🗸	0002	1000	Click to cho	ose csv file N	o files			1	2022-11-15 08:51:34	2022-12-01 13:45:35	
Member	ubitrackE28068900001	E280689000000025E61	Files requirem size: 10MB	nents: In CSV form	nat; includes n	aximum 50	000 rows of data; maximum	0	2022-11-29 14:15:41	2022-12-01 14:15:14	0
Member Group	ubitrack0004	1000			Car	cel		0	2022-11-29 15:26:12	2022-12-01 14:30:38	
b. Warning Management ~	0007	name		4349	Male	18	Staff	0	2022-12-01 17:25:33	2022-12-01 17:25:33	
Track Playback v				dcb5	Male	21	No Category	0	2022+12+12 10:38:30	2022-12-12 10:38:30	
3 Prison Management 🗸 🗸	0003		(1)		Male	30	Police	1	2022-12-22 13:23:20	2023-03-01 14:38:58	Ø : ≣ : @
Outdoor Positioning 🗸 🗸	0004		-	b83c	Female	35	No Category	100	2022-12-22 13:23:20	2022-12-23 14:33:03	0 - 12 - 10 - 6
System Management 🗸 🗸	0005		R	4348	Male	40	Police	2	2022-12-22 13:23:20	2022-12-23 12:37:13	
♥ OPS Management ~	ubltrack0005	ubitrack0005	P		Male	30	Police	1	2022-12-30 10:55:27	2022-12-30 10:55:27	
	< 1 > Total	1 pages, Go to 1 page	ок								

3 Fill in the local template file according to the relevant rules described in the document and save it.

④ Click [Member Management - Member/ Member Group - Data Import - Click to choose csv file] upload the saved file, click [Start uploading] after the upload is successful, and the number of data will be prompted after the upload is successful.

UbiTrack											Blue 🗸	English 🗸 🙆 liy***hui 🗸
e liy***hul	1.	Member Management										
	*	Q Member Serial(MS)/	Name +Add	+Data Impo								
	~	Member Serial(MS) \$	Name ¢	Data Impo				×	ming Level \$	Creating Time ¢	Update Time 🗢	Operating
🛍 Zone Management	~	0001	100	🛓 Downloa	ad template				1	2022-11-15 08:46:40	2022-12-09 12:27:27	0 - 12 - 10 - 10
	~	0002	-			file: 54805-feed	s-580C81N	RWS1Rcsv size: 119.1 kB	1	2022-11-15 08:51:34	2022-12-01 13:45:35	
		ubitrackE28068900001	E2806890000000025E61	Start uplo Files requirer size: 10MB		rmat; includes n	naximum 50	000 rows of data; maximum	0	2022-11-29 14:15:41	2022-12-01 14:15:14	0.10.0
		ubitrack0004	1000	size: TOMB		Car	icel		0	2022-11-29 15:26:12	2022-12-01 14:30:38	
	~	0007	name		4349	Male	18	Staff	0	2022-12-01 17:25:33	2022-12-01 17:25:33	
	*				dcb5	Male	21	No Category	0	2022-12-12 10:38:30	2022-12-12 10:38:30	
Prison Management	*	0003	-	1		Male	30	Police	1	2022-12-22 13:23:20	2023-03-01 14:38:58	Ø : := : @
	~	0004			683c	Female	35	No Category	100	2022-12-22 13:23:20	2022-12-23 14:33:03	
	~	0005		(2)	4348	Male	40	Police	2	2022-12-22 13:23:20	2022-12-23 12:37:13	
	~	ubitrack0005	ubitrack0005	R		Male	30	Police	1	2022-12-30 10:55:27	2022-12-30 10:55:27	
		< 1 > Total	1 pages, Go to 1 page	ок								
		This form page can display 10	✓ entries									

(5) Note: When you close the template, click [Save] when you encounter the situation that Figure as below you to save as. First of all, please change the "save type" to "CSV (comma delimited)", secondly, find the original template file in the local folder and replace the "file name" saved as with the same name as the original template file to achieve the purpose of replacing the original file, and the replacement will solve the problem that the template cannot be used normally.

3.5.4 Member Category

[Member Management - Member Category] can add, delete, modify and check different

member category management, the system will give several member category management by default, in [Member Management - Member Category Management] can be given member related classifications to achieve the purpose of classifying personnel.

UbiTrack				Blue 🗸 English 🗸 🙆 a***n 🗸
🕐 🎴 a***n 🔍	Member Category Management			
♦ Real-Time Monitoring ✓	Q +Add			
Device Management ~	Name ¢	Avatar 🗢	Color \$	Operating
🔰 Zone Management 🛛 🗸 🗸	Police	P		
👃 Member Management 🗸 🗸	Prisoner	JII.		
Member Member Group	Staff			
Member Category	Visitor			Ø + 🛍
🕹 Warning Management 🗸 🗸	Worker	<u>_</u>		
🗣 - Track Playback 🔍 🗸	Manager			
 Outdoor Positioning ~ 				
 System Management ~ 	< 1 > Total 1 pages, Go to 1 pages,	age OK		
✗ OPS Management ✓	This form page can display 10 💌 entries			
🛓 User Center 🗸 🗸				

3.6 Warning Management

3.6.1 Warning Rules

[Warning Management - Warning Rules] can add, delete, modify and check the operation of setting early warning rules such as heart rate and low voltage for the tag carrier or itself. After the user sets an warning rule and enables it, the platform will alert the tag carrier when trigger the rule.

							Blue 🖌 English	🗸 🙆 liy***hui 💊
e liy***hui	Warning Rules Management							-
♦ Real-Time Monitoring ~	Q Name	Warning Type V Enabled/D	isab V + Add + One-Clic	k Rollcall	_			
Device Management ~	Name \$	Enabled/Disabled \$	Description \$	Warning Type \$	Warning Object \$	Start Time ¢	End Time ¢	Operating
Zone Management V	Heart Rate	OFF	Heart Rate	Heart Rate	Person	-	-	Ø i 🗊
Member Management 🗸	Wristband Disconnect	OFF	Wristband Disconnect	Wristband Disconnect	All	00:00:00	23:59:59	
	Rollcall 1	OFF	Rollcall 1	Rollcall	Person	15:00:00	15:00:59	Ø 🗊
Warning Management 🗸	Low Battery	OFF	1	Low Battery	All		-	1
	Offline	ON	Offline	Offline	All			2 1
Warning Messages	One-Click Rollcall	ON	1	One-Click Rollcall	Tag	17:18:09	17:19:09	0 1
Calls Messages	SOS	OFF	1	SOS	All	-		0 1
Track Playback 🗸 🗸	< 1 > Total 1 page	s, Go to 1 page OK						
Prison Management 🗸 🗸								
Outdoor Positioning ~	This form page can display 10 👻 entr	ies						
🕴 System Management 🌒 👻								
● OPS Management ~								

3.6.2 Warning Messages

[Warning Management - Warning Messages] displays information about which rules have been triggered by the tag or member, when it was triggered, and so on.

									Blue 🛩 Engl	ish 🗸 🙆 liy***hu
👂 📍 ily***hui 🔍			ges Management							
Real-Time Monitoring ~	warning) Messa	ges Management						E N	farked All
Device Management ~	Warning	g Type	Warning Type	✓ Status Status ✓ Start Time	2023-02-09 11:05 (+08	00) 🗮 End Tir	me 2023-03-03 11:05 (+0800)			
🖉 Zone Management 🛛 🗸	Mar	ked(0 m	assage(s) as read)							
	018		Rule 🗢	Member Serial(MS) ¢	Name 🕈	Serial 🗢	Warning Type 🕈	Status 🕈	Time 🖨	Additional Info.
3 Member Management 🗸 🗸		Q	SOS ALERT			6656	SOS	Read	2023-02-27 12:54:22	
🖌 Warning Management 🗸 🗸		Q	SOS ALERT			6656	SOS	Read	2023-02-27 12:53:16	
s warning wanagement V			SOS ALERT			f075	SOS	Read	2023-02-27 10:59:51	
Warning Rules			SOS ALERT			2b90	SOS	Read	2023-02-27 10:51:42	
Warning Messages		Ŵ	SOS ALERT			8fd7	SOS	Read	2023-02-27 10:45:11	
Calls Messages		Ô	SOS ALERT			0001	SOS	Read	2023-02-27 10:24:24	
		Θ	SOS ALERT	0001	1000	0003	SOS	Read	2023-02-27 09:07:59	
Track Playback v			SOS ALERT			0b0a	SOS	Read	2023-02-27 09:00:57	
Prison Management V		Ø	SOS ALERT			0b0a	SOS	Read	2023-02-27 09:00:53	
Prison management V		Ŵ	SOS ALERT			73db	SOS	Read	2023-02-24 16:43:51	
Outdoor Positioning ~	<		2 > Total 2 pa	ges, Go to 1 page OK						
System Management 🛛 🗸	This form	n page car	display 10 ♥ entries							
OPS Management v										

3.6.3 Calls Messages

[Warning Management - Calls Messages] displays the arrival status of the tag or tag carrier within the specified roll call time, and can view the number of people who should arrive and the actual arrival, as well as detailed member information.

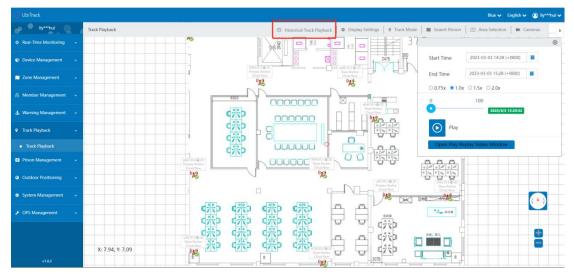
🕖 UbiTrack						Blue 🗸 E	nglish 🗸 🙆 liy***hui 🗸
e liyaaahui	Calls Messages I	Management					
♦ Real-Time Monitoring ~							Marked All
Device Management ~	Status Status	✓ Start Time 2023-0	8-08 13:54 (+0800)	2023-03-09 13:54 (+0800)			
📜 Zone Management 🗸 🗸		assage(s) as read)					
8 Member Management		Rule ¢	Fence CloudForce 3	Time ¢ 2023-03-06 17:19:10	Should Counts ¢	Actual Counts ©	A3
🕁 Warning Management 🗸		> Total 1 pages, Go to 1 pa		2023-03-08 17:19:10	2	1	62
Warning Rules	This form page can	display 10 🗸 entries					
Warning Messages	1.4						
Calls Messages Track Playback							
🗴 Prison Management 🗸 🗸							
Outdoor Positioning ~							
🕽 System Management 👩 🗸							
P OPS Management ~							

3.7 Track Playback

Click [Track Playback - Track Playback - Historical Track Playback], select the time and speed, click [Play], the platform will start playing the tag, tag motion and other data in the time period

according to the filter rules, and users can also use the display settings, track mode and other settings to more accurately filter the playback results they want. (For specific instructions, please refer to **[3.2.1.1 Plan]**)

If the platform has camera playback capability and is equipped with a related hardware recorder, you can click **[Open Play Replay Video Window]**, at the same time, check the plan tag status and the camera recording status. (For specific instructions, please refer to **[3.3.5 Camera, Camera Transcoding and Dvr]**)



3.8 System Management

3.8.1 Menu

[System Management - Menu] can add, delete, modify and check the left navigation menu related display, sub-parent level and other configurations, the system will give all existing menu functions by default, without self-development capabilities are not recommended to modify all the content of the function at will, if you want to self-development, you can contact sales or after-sales personnel to ask for relevant development rule documents.

9 a ^{***} n Q (Menu Management								
 Real-Time Monitoring ~ 	Q	Parent Me	nu V Display in the menu V	Hidden(Yes or N	In) × +	Add			
∂ Device Management ~	Upper Menu \$	Name \$	English ¢	Sorting \$	URL ¢	Icon ¢	Display in the menu \$	Hidden(Yes or No) \$	Operating
Zone Management 🔍 🗸		实时道控	Real-Time Monitoring	1		fa fa-crosshairs	Yes	No	Ø 🔒
) Member Management 🗸 🗸		设备管理	Device Management	2		fa fa-cube	Yes	No	0
, Warning Management 🗸		区域管理	Zone Management	3		fa fa-map	Yes	No	Ø : 🗑
Track Playback 🗸 🗸		人员管理	Member Management	7		fa fa-user-o	Yes	No	Ø 🗑
Outdoor Positioning ~		预容管理	Warning Management	8		fa fa-anchor	Yes	No	0
- System Management		轨迹回放	Track Playback	10		fa fa-map-marker	Yes	No	0
• Menu		车辆管理	Car Management	22		fa fa-car	Yes	No	
System Settings		监狱管理	Prison Management	26		fa fa-window-close	Yes	No	Ø 🛙
Authority		室外定位管理	Outdoor Positioning	30		fa fa-globe	Yes	No	
F OPS Management ✓		系统管理	System Management	35		fa fa-gear	Yes	No	0 1
User Center 🗸 🗸	< 1 2 3		> Total 7 pages, Go to	-					

3.8.2 System Settings

• [System Management - System Settings - Positioning Settings] can control the offline or disconnection time of the tag, the Min number of anchors of the positioning algorithm, the time to control the time when the anchor sends a modified signal to the tag at a single time, and other functions, mainly controlling the platform display, the linkage settings of platform-related functions and several basic configurations of the anchor.

0 UbiTrack					Blue 🗸 English 🗸 🙆 liy***h	iui 🗸
🕐 🎴 liy***hui 🖉						
Real-Time Monitoring	System Settings Management					_
	Positioning Settings	Tag offline time(s)	10		Default:10;Min:10;After this time, the tag will be grayed out on the page	^
Device Management		Tag disconnection time(s)	30		Default:30;Min:30; Tag disconnection time > Tag offline time; After this time, the label disappears on the page	L
📜 Zone Management		Anchor offline time(s)	1		Default:1;Min:1; After this time,The anchor prompts offline	L
음 Member Management		TWR Min number of anchors	●3 ○4			1
🕹 Warning Management		TDOA Min number of anchors	4		Default:4;Min:4	
Track Playback		Average sampling counter of positioning coordinate values	6		Default:6/Min:6; Average the coordinate values of N times as this coordinate	
x Prison Management		Anchor broadcast data duration(ms)	20000		Default:20000;Min:20000; When setting the tag parameters, the anchor broadcast data duration (ms)	
Outdoor Positioning		Anchor setting ignore list	● Set ignore list ○ Do not set igr	nore list	In the case of SOS warning, click the button times to give an alarm (Set ignore list: 6 times; Do not set ignore list: 3 times)	
		Data selected for Rule	O TWR O TDOA . TWR, TDOA	N		
System Management		The positioning result returns the info. of the e-fence where the tag is located	Return ○ Do not return			
 System Settings 			● UbiTrack ○ C++			
P OPS Management		TWR Algorithm				
		TDOA Algorithm	● UblTrack ○ ClockSync Chain			*
			_			
			ОК			
- J. 19						
v1.0.2						

[System Management - System Settings - Tag Alarm] can modify the alarm type and sec of the tag, after the modification, the tag needs to be moved to the anchor associated with the platform to receive the relevant command after the tag will be modified, and it takes a certain amount of time to receive and process the signal data sent by the anchor, do not modify it repeatedly at a high frequency, there may be a failure to modify the data.

UbiTrack					Blue 🗸 🛛 English 🗸	ⓐ liy***hui ∨
e Ily***hui	System Settings Management					
♦ Real-Time Monitoring ~						
Device Management ~	Tag Alarm	Tag Alarm Type	Vibration Motor O Buzzer			
👏 Zone Management 🗸 🗸		Tag Alarm Sec	2	Default:2;Min:1		
	System UI Settings	Platform Name	UbiTrack			
A Member Management ~	system or settings	System Icon	6			
🕁 Warning Management 🗸 🗸		oyuen kon				
🕈 Track Playback 🗸			Select The Picture Clear Max-Size 5MB, the transparent background app	pears as grey		
🗴 Prison Management 🗸		ICP Licensing	© 2013-2023			- 1
 Outdoor Positioning 		The Homepage Displays Calls Statistics	Show			
		The Homepage Displays Warning Types Statistics	Show			
 System Management ~ 		The Homepage Displays Warning Messages Statistics	Show			- 1
System Settings		The Homepage Displays Zones Offside Warning Statistics	Show			
						-
			ОК			
v1.0.2						

• [System Management - System Settings - System UI Settings] can modify the system icon, name, etc. of the platform, and also control several statistics in the "Home".

UbiTrack					Blue 🗸	English 🗸	
🕐 🎴 liy***hui 🔍		System Settings Management					
Real-Time Monitoring		System UI Settings	Platform Name	UbiTrack			
Device Management		System Of Settings	System Icon	-			
🔰 Zone Management			system con	Select The Picture Clear			
A Member Management				Max-Size 5MB, the transparent background	appears as grey		
🕹 Warning Management			ICP Licensing The Homepage Displays Calls Statistics	© 2013-2023			
Track Playback			The Homepage Displays Warning Types Statistics	Show			
Prison Management			The Homepage Displays Warning Messages Statistics	Show			
Outdoor Positioning			The Homepage Displays Zones Offside Warning Statistics	Show			
 System Management 	~	Graphic settings	All Percentage	100	96		
System Settings			Image Percentage	100	96		- 1
P OPS Management			Tag Detail Display Width	130	%		-
							•
				OK			
v1.0.2							

• [System Management - System Settings - Graphic settings] can modify the percentage of the initial size of images and tags, and you can view the corresponding effect in the plan.

0 UbiTrack				Blue 🗸	English 🗸	(a) liy***hui ✓
🕐 📍 liys**hui 🔍	System Settings Management					
♦ Real-Time Monitoring →		ICP Licensing	© 2013-2023			
Device Management ~		The Homepage Displays Calls Statistics	Show			
📜 Zone Management 🗸 🗸		The Homepage Displays Warning Types Statistics	Show			
8 Member Management 🗸		The Homepage Displays Warning Messages Statistics The Homepage Displays Zones Offside Warning	Show			
🕹 Warning Management 🌍 🗸		Statistics				
🕈 Track Playback 🗸 🗸	Graphic settings	All Percentage	100	%		
 Prison Management ~ 		Image Percentage	100	96		
 Outdoor Positioning ~ 		Tag Detail Display Width	130	%		
	Smart Sensor Settings	Enable	Yes			
 System Management 		Data Interface URL				- 1
 System Settings 		Data Interface User				- 1
P OPS Management ~		Data Interface Password				
			ОК			
v1.02						

[System Management - System Settings - Smart Sensor Settings] can connect the smart sensor of the UbiBot platform to this positioning platform, you can find sales or after-sales personnel to understand UbiBot related products, and after understanding, you can obtain the corresponding interface, user name and other information from relevant personnel. The sensor associated with the positioning platform can be calibrated to the plan of a certain zone like the anchor calibration, and the user can view the real-time data of the smart sensor at any time.

UbiTrack				Blue∨ English∨ (2) liy***hui∨
e Ily***hui	System Settings Management			
♦ Real-Time Monitoring				
Device Management ~		The Homepage Displays Warning Messages Statistics	Show	
📕 Zone Management 🗸 🗸		The Homepage Displays Zones Offside Warning Statistics	Snow	
8 Member Management ~	Graphic settings	All Percentage	100	%
		Image Percentage	100	%
		Tag Detail Display Width	130	%
♥ Track Playback ✓	Smart Sensor Settings	Enable	Ves	
💌 Prison Management 🗸 🗸	smart sensor settings	Data Interface URL		
Outdoor Positioning ~		Data Interface User		
 System Management ~ 		Data Interface Password		
System Settings		Data Interface Token		Data interface unl, User and password are required, and the system automatically get this data
🖌 OPS Management 🗸 🗸		Chart Temperature Display Scale	● Celsius 〇 Fahrenheit	
			ОК	
v1.0.2				

3.8.3 Authority

[System Management - Authorization] mainly controls the Authorityinfo of the positioning platform, and the relevant positioning functions cannot be used normally after the time expires, please refer to the **[2.3.5 Authorization Code Expiration]** for specific instructions.

3.9 OPS Management

3.9.1 Tag Parameter

[OPS Management - Tag Parameter] can modify the active/static frequency, heart rate sampling interval, tamper status for tags and tag groups within a certain period of time. <u>After the platform</u> adds the modification information, you need to enable the parameter command, and the tag can only start receiving the modification signal after it is moved into the anchor that sends the specified data.

Render Management Positioning Interval OFF (*active_fn*200;*static_fn*1000) 2023-02-21 1518.38 2023-03-66 11:1630 If Member Management v 0003 OFF (*static_fn*100)*active_fn*100;*active	JbiTrack					Biue V E	nglish 🗸 🙆 a*
ad Ime Monitoria o kade Management o entee M		Tag Parameter Management					
<pre>skick Malagement \ here M</pre>		F	+ Add				
and many many of the many many of the many many many many many many many many	evice Management 🔍	L		Tag Parameter 🗢	Creating Time 🗢	Update Time 🗢	Operating
initial Management 0	ne Management 🗸 🗸	Positioning Interval	OFF	{"active_fn":200,"static_fn":1000}	2023-02-21 15:18:38	2023-03-06 11:16:30	Ø 🖬
1000-500 OFF (hardher fin '500) 2021-02-21 15.45.02 2023-02-22 15.45.02 0 <t< td=""><td>mber Management</td><td>0003</td><td>OFF</td><td>{"static_fn":100,"active_fn":100,"cm_led":1}</td><td>2023-02-22 09:30:06</td><td>2023-02-22 15:37:22</td><td>0 1</td></t<>	mber Management	0003	OFF	{"static_fn":100,"active_fn":100,"cm_led":1}	2023-02-22 09:30:06	2023-02-22 15:37:22	0 1
CAUGE-SCOOL CHP (1state [m SOU0) CAUE-SUC-42 (1 244888 2023-52-21 (1 344:19) Image: Cauge Ca		0306-500	OFF	{"active_fn":500}	2023-02-21 15:45:02	2023-02-21 15:45:02	
ideal Posting	arning Management 🤟	0306-5000	OFF	("static_fn":5000)	2023-02-02 13:48:48	2023-02-21 15:44:19	0 1
This form page can diglay 10 • Jennies Stanagement • Stanagement •		< 1 > Total 1 pages	Go to 1 page OK				
Shanagement o	itdoor Positioning ~	This form page can display 10 👻 entri	5				
ag Parameter D&M iamera Storage	stem Manageme 🕦 🗸						
DBM Camea Storage Time Management	PS Management 🗸 🗸 🗸 🗸 🗸 🗸						
iamera Storage Time Management	ag Parameter						
The Management	08/M						
	Camera Storage						
HCP ·	fime Management						
	онср 💌						

① Click [OPS Management - Tag Parameter - Add].

2 1. Enter the name for the new command.

2. Select the anchor that sends the command (Multiple anchors can be selected), and the anchor needs to have the ability to transmit the signal (The firmware version needs to be upgraded to the specified version) to complete the signal transmission behavior normally.

- 3. Set the command to the "Enabled".
- 4. Set the tags that need to receive commands.
- 5. Set the tag parameters that need to be modified.
- 6. Click [OK].

								iglish 🗸 🙆 a***n
a***n 0	Parameter Management							
♦ Real-Time Monitoring ∨	Q Name +/	add						
Device Management ~	Add						× nte Time ¢	Operating
📦 Zone Management 🗸 🗸	1. Name	Name	0	Description	Description		3-06 11:16:56	0 1
A. Member Management ~	2. Anchor		0	3. Enabled/Disabled	OFF		2-22 15:37:22	Ø 🗊
	4. Object	All 🗸					2-21 15:45:02	
🕹 Warning Management 🗸	5. Positioning Interval (Inactive)	Inactive	Unit(ms)	Positioning Interval (Active)	Active	Unit(ms)	2-21 15:44:19	
🕈 Track Playback 🗸 🗸	Range Type	● Not Set ○ TWR ○ TDOA		LED	● Not Set ○ LED ON ○ LED OFF		-	
Outdoor Positioning ~	Tamper status	Not Set O INC O IDOA		Show Password Page	Not Set O LED ON O LED OFF			
🕽 System Manageme 👔 🗸	Sampling Interval (Heart Rate)	Heart Rate	Unit(s)	Measurement duration (Heart Rate)	Heart Rate	Unit(s)		
🗲 OPS Management 🗸 🗸	Sampling Interval (Battery)	Battery	Unit(s)	UTC Time Settings	Not Set			
Tag Parameter	Time Zone 0	Time Zone						
• 08M	Positioning Interval(GPS)	Positioning Interval(GPS)	Unit(s)				-	
Camera Storage Time Management	Upload Basic Data Interval 🚯	Upload Basic Data Interval	Unit(s)	Data uploaded including GPS data or not	● Not Set ○ Include ○ Exclude			
• DHCP -			6. ок	Cancel			-	
v1.02							_	

Note:

When there are too many modified configuration items, it takes a certain amount of time for the tag to receive the command, do not move the tag out of the specified anchor during this time, and do not repeatedly modify the same parameter command on the platform at high frequency, which may cause the tag not to execute the command due to conflicts or incomplete reception. Do not let different anchors send different parameter modification commands to the same tag, in which case the tag will only execute the parameter command sent by the latter anchor.

3.9.2 O&M

① Enter **[OPS Management - O&M]**, click the **[+]**, will pop up the selection window, select the ".bin" upgrade file provided. (The upgrade file can be consulted with sales or after-sales staff)

UbiTrack			Blue 🗸 🛛 English 🗸) a***n 🗸	í
a***n					1
Device Management ~	0&M				I
🗯 Zone Management 🗸 🗸		}			l
👃 Member Management 🗸	 o □ a0a9 o □ 333e o □ a2f1 				l
🕹 Warning Management 🗸	• o □ a1f6 • o □ ab61 • o □ 147f				l
🎗 Track Playback 🗸 🗸	• o □ 9958 • o □ ab60 • o □ ab62				
 Outdoor Positioning ~ 	• o 🗆 6009				l
System Managemen v					l
✔ OPS Management ~					l
Tag Parameter					I
• 0&M					I
Camera Storage		The uploaded file format is: rtthread-****.bin, where **** is the firmware version number			I
Time Management	1	The command format is: ratota #*** #*** is the firmware version number			I
DHCP					I
🔺 User Center 🗸 🗸		+ Upload			
v1.02		Click to upload the file, or drag and drop to upload			

2 Click **[Upload]**, upload the upgrade file to the server.

UbiTrack		Blue 🗸	English 🗸	🕘 a***n 🗸	
a ^{###} n Device Management ~	0&M				
関 Zone Management 🗸 🗸	• (:) [] All (:) [] Cloudforce (:) [] (:) [:) [(:) [] (:) [] (:) [] (:) [(:) [] (:) [] (:) [:) [(:) [(:) [i] (:) [i] (
👃 Member Management 🗸	• ○ □ 3439 • ○ □ 3338 • ○ □ 3211				1
🕁 Warning Management 🗸	 ○□ a/16 ○□ ab61 ○□ 1477 				
🕈 Track Playback 🗸 🗸	 ○□958 ○□960 ○□962 				
 Outdoor Positioning ~ 	• 0 🗆 6009				
🇿 System Manageme 🚹 🗸					
🗲 OPS Management 🗸 🗸					
Tag Parameter					
 O&M 					
Camera Storage	The uploaded file format is: rtthread-****.bin, where **** is the firmware version number				
Time Management	The command format is: setota **** **** is the firmware version number				
DHCP	Uptood				
LUser Center 🗸 🗸	rtthread 10.2 50 bin				
v1.0.2	A LE LOCATION DE LOCATION				

③ Select the anchors need to be upgraded on the left.

0 UbiTrack			Blue 🗸	English 🗸) a***n 🗸	ł
e • a***n	and a second					
Device Management ~ *	0&M					I
関 Zone Management 🗸 🗸						
🐣 Member Management 🗸	• o ≤ 6009 • o ≤ 333e • o ≤ a708					l
🕹 Warning Management 🗸	• o 22 ø0ø9 • o _ a211 • o _ a116					l
🕈 Track Playback 🗸 🗸						
 Outdoor Positioning ~ 	• o 🗆 ab60					l
🗢 System Manageme 👔 🗸						l
🗲 OPS Management 🗸 🗸						l
Tag Parameter						1
● O&M						1
Camera Storage		bin, where **** is the firmware version number.				1
Time Management	The command format is: setota ****, ***	is the firmware version number				1
DHCP			Upload			1
🔺 User Center 🔷 🗸		+	opoau			
v1.02	Click to upload	the file, or drag and drop to upload	J			,

④ Enter "setota ****" in the black command box and click Enter key to execute the command will successfully modify the anchor firmware version, if it is not successfully modified, please refresh the current interface, and repeat the above steps for the anchor that has not been successfully modified. (**** is the firmware version number of the upgrade file)

🔮 UbiTrack		Blue 🗸	English 🗸	🚇 a***n 🗸	1
a ⁴⁴⁴ n Device Management ~	0&M				
🔰 Zone Management 🗸 🗸	• () 🖂 All • () 🖂 CloudForce • Cl a bol2				1
🛆 Member Management 🗸	• off 6009 • off 333e • off arob				1
🕹 Warning Management 🗸	• 0월 3039 • 0□a2t1 • 0□a1t6				l
♥ Track Playback →	• 0 □ ab61 • 0 □ 1477 • 0 □ 9958				
 Outdoor Positioning ~ 	• o 🗆 ab60				l
System Management					l
🗲 OPS Management 🗸 🗸					l
Tag Parameter					1
• 0&M					1
Camera Storage	The uploaded file format is: rtthread-**** bin, where **** is the firmware version number				1
Time Management	The command format is: setota ****, **** is the firmware version number				1
DHCP	Uplead				1
🔺 User Center 🔷 👻	Click to upload the file, or drag and drop to upload				
v1.0.2	Circk to uproad the line, of drag and drop to uproad				1

3.9.3 Camera Storage

[OPS Management - Camera Storage] can set the camera low-power mode, because the camera needs to run the transcoding server to display the real-time picture on the platform, and the server will be under excessive pressure to keep multiple cameras working at the same time for a long time, so you can set how many minutes the camera will stop transcoding to reduce the pressure on the server.

💮 UbiTrack			Blue 🗸	English 🗸	@ a***n ♥
a ⁴⁴⁴ n © Device Management ~	Camera Transcoding Settings Management				
Device management					
関 Zone Management 🗸 🗸 🖌 🗸	Low-Power Mode	ov In order to reduce the load of the video transcoding server, give up transcoding for unused videos			
👃 Member Management 🗸	Stay Times (Min)	10			
🕹 Warning Management 🗸		After enabling low-power mode, the unused video transcoding service retention time			
🎗 Track Playback 🗸 🗸	Face Recognition Mode	OFF			
 Outdoor Positioning ~ 		OK			
System Managemen v					
F OPS Management V					
 Tag Parameter 					
 O&M 					
Camera Storage					
Time Management					
DHCP					
🔺 User Center 🗸 🗸					
v1.02					

3.10 User Center

3.10.1 User

Click **[User Center - User - Add]**, fill in the required fields such as user group and nickname to add a new user data, and the user name and password can log in to the positioning platform normally and operate the functions assigned to the user.

	iser Management									
Device Management 🗸	Q	+ Add								
Zone Management 🗸	User Group 🗢	Nickname 🗢	Add				×	ie ÷	Update Time 🗢	Operating
	Admin	wang	User Group	Please Select		~	0	:03:14	2023-01-04 14:03:36	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Member Management 🤟	User	limengfei	Nickname	Nickname			0	:49:47	2023-01-03 09:49:47	0 8 0
, Warning Management 🐱	User	michael	Username	Username			0	:16:59	2022-12-30 15:16:59	Ø 8 1
Track Playback 🗸 🗸	User	liyinghui	Password	At least 8 digits	or characters		0	:26:42	2022-12-27 15:26:31	Ø 1 8 1 1
Outdoor Positioning v	User	luxiaolin	Email	Email				:58:37	2022-12-23 08:58:37	Ø 6 1
System Manageme 🎧 🗸 🗸	Admin	chen	Mobile	Mobile				:59:28	2022-12-05 14:59:28	Ø 8 8
OPS Management ~		liying		ОК	Cancel			:13:51	2022-11-24 13:13:51	1 1 8 1 1
User Center 🗸 🗸	100	jiangxinjing	jiangxinjing			2022-1	1-22 1	3:14:30	2022-11-22 13:16:38	Ø 8 10
• User	User	david	david			2022-1	1-18 0	9:44:21	2022-12-02 14:59:52	Ø 1 8 1 1
User Group	User	Eamon	Eamon			2022-1	1 17 1	5.16.00	2022-11-17 15:16:08	0 8 0
Access	030	Carrion	Carrion			2022-1	1-17-1	5.10.00	2022-11-17 10:10:00	01018

3.10.2 User Group

Click **[User Center - User Group - Add]**, fill in the name and description to add a user group data, assign different users to different groups, and achieve the purpose of assigning different permissions to users.

					Blue 🗸 English 🗸 🔘 a ^{t++} n 🗸
et attan	User Group Management				
Device Management v	٩	+ Add			
📦 Zone Management 🗸 🗸	Name \$	Descrip Add		Update Time 🗢	Operating
	0.000	Name		2022-11-03 09:55:17	Ø 💼
A Member Management ~	1.000000	Description		2022-11-01 14:58:56	0 1
♣ Warning Management ∨	User	Use		2022-05-31 14:59:31	Ø - 🗑
♥ Track Playback ~	Admin	All Permissions	OK Cancel 2019-02-13 15:04:32	2022-05-31 12:52:20	8
Outdoor Positioning v	Total 1 page	s, Go to 1 page OK			
● System Managemen	This form page can display 10 v ent				
✔ OPS Management ~	This form page can display 10 • em	185			
🛎 User Center 🗸 🗸					
• User					
User Group					
Access					
Actionlogs					
v1.0.2					

3.10.3 Access

In **[User Center - Access]**, select the user group you want to configure, check the functional permissions assigned to the user group, and then click **[Save]** to complete the configuration.

	Blue	👻 English 🗸	🕘 a***n
e ^{atte} n atte	Access Management		
Device Management	Please Select Flease Select		
👏 Zone Management	a Monitoring Tiew User New		
8 Member Management	Admin era Nay ○ o UHeat Map ○ o Conclusal		
4. Warning Management			
Track Playback	 ○ □ Tag ○ □ Tag Group ○ □ Tag Group 		
Outdoor Positioning	 o □ Camera o □ Camera Transcoding 		
System Management System System Management System System Management System System System System System System System System System Sy	 ○ 0 □ Dw ○ 0 □ TagsChange ○ 0 □ 00 		
P OPS Management	 o C] Smart Smoor o C] Tag detail o C] Tag forcen History 		
User Center	 o □ Tag Group Details () □ Zone Management o □ Zone 		
User Group	 o □ 3dzone o □ Custom electric fence 		
Access Actionlogs	(·) □ Member Management o □ □ Member v ○ □ Member v ○ □ Member		
v1.0.2	 ○ C Medice Stopp ○ C Medice Asport ○ C Faces Configuration ○ C Perional Details 		

3.10.4 Action Logs

[User Center - Action Logs] can view the operation records of modifications and additions made by users for the positioning platform.

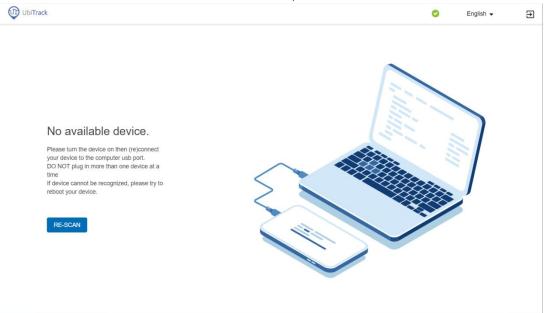
Device Management v	Туре Тур	e ~	Start Time	2023-02-04 14:57 (+0800)	End Time 2023-03-06 14:57 (+0800)			_
	Type ¢	Operator \$	IP ¢	Created At 🗢	Before 🗢	After 🗢	ID \$	
Zone Management 🗸 🗸	Zone	liyinghui	192.168.2.3	2023-03-03 15:27:17	{"id":15,"name":"office","plan		15	(
Member Management 🐱	Rules	liyinghul	192.168.2.3	2023-03-03 11:16:22	{"name":"SOS ALERT"}	("name":"SOS\u62a5\u8b66")	2	6
Varning Management 🐱	Rules	liyinghui	192.168.2.3	2023-03-03 11:06:02	{"name":"SOS\u62a5\u8b66"}	{"name":"SOS ALERT"}	Z	(
	Rules	liyinghul	192.168.2.3	2023-03-02 17:28:18	{"name":"One-click roll call"}	{"name":"\u4e00\u952e\u70b9\u5	4	(
rack Playback 🗸 🗸	Rules	liyinghui	192.168.2.3	2023-03-02 17:28:00	("name":"Offline Alert","descr	("name":"\u79bb\u7ebf\u9884\u8	9	1
Outdoor Positioning 🗸 🗸	Rules	liyinghui	192.168.2.3	2023-03-02 17:27:13	("name";"\u79bb\u7ebf\u9884\u8	("name":"Offline Alert","descr	9	1
ystem Manageme 🕤 🗸 🗸	Rules	llyinghul	192.168.2.3	2023-03-02 17:26:25	{"name":"\u4e00\u952e\u70b9\u5	("name":"One-click roll call",	4	1
PS Management v	Fence	liyinghui	192.168.2.3	2023-03-02 16:30:49	("name":"CloudForce3")	("name":"CloudForce\u7535\u5b5	6	1
PS Management S	Rules	liyinghui	192.168.2.3	2023-03-02 16:15:54	{"name":"One-click roll call"}	{"name":"\u4e00\u952e\u70b9\u5	4	1
ser Center 🗸 🗸 🗸	Fence	liyinghui	192.168.2.3	2023-03-02 16:15:25	("name";"CloudForce\u7535\u5b5	{"name":"CloudForce3"}	6	0
User	< 1	2 3 4 5		otal 6 pages, Go to 1 page OK				
User Group								
Access	This form pag	ge can display 10 👻 e	entries					

4. UbiTrack PC Tools

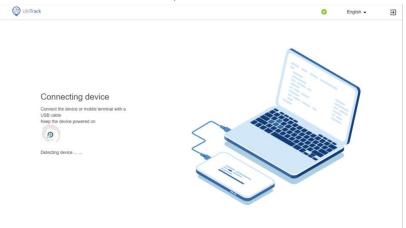
(1) The official website or contact sales and after-sales staff to obtain the download installation package, install it on the terminal device as required, and a quick start icon will be generated on the desktop after installation.



② Double-click the start icon to run UbiTrack Desktop.



③ After the tag is connected to the USB port of the terminal device through the exclusive charging cable interface, the software will begin to detect the device information, as shown below. (The tag needs to turn on and cannot be connected to the same terminal device with UbiTrack PC Tools installed at the same time)



④ UbiTrack PC Tools will automatically identify the connected tag normally, if the software does

not recognize the tag, you can manually click **RE-SCAN** to let UbiTrack PC Tools retrieve the tag again, when the tag is recognized, the following interface will be displayed. (Re-scan checks every available USB port, so it will take longer than reconnect the tag. However, some tags may take a little longer to boot, in which case you can use the re-scan feature to force a scan after the tag boots up)

UbiTrack			0	English 👻	
Info		UbiTrack			
Meta					
Unplug	Device Address AB46905D	Device Group 0411			
	Current USB Port	MAC Address E5:B3:0B:66:E4:37			
	Positioning Interval(Inactive) 5000 ms	Positioning Interval(Active) 500 ms			
	Channel 2	Firmware UT-TWC1_V2.0.9			
	Battery Power: 4.18				
		Device Setup			
•					

(5) After successful scanning, the software interface will display the basic information of the tag, if you need to modify the active/static frequency of the tag or the tag time (the tag time update

will be synchronized with the clock of the terminal device), you can click Device Setup to

enter the following interface, if you do not need it, you can click Unplug to exit the current tag.

Info Meta Unplug Unplug Unplug Unplug Unpl	lish 👻
Unplug Postoving Interval(Interval)* Sooo Ukl(min) Postoving Interval(Interval)* Soo Until(min) Postoving Interval(Interval)* Soo Until(min) © Ukl(min)	
Unplug 500 Undersen prevara(Active) * 500 Untime) Datate Device Time Check For Update	3 Done
Check For Update	

6 After modifying the value, click

Start Setup

to prompt the followingwindow, click the

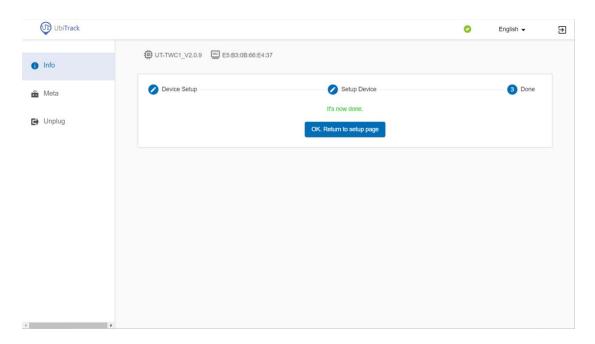
[OK] button will enter the configuration interface and display the configuration success after the configuration is completed.

UbiTrack PC Tools

Confirm to start to communicate with the device.



UbiTrack			0	English 👻	€
Info	🕲 UT-TWC1_V2.0.9 🔤 E5:	B3:0B:66:E4:37			
🚠 Meta	Device Setup	Setup Device		3 Done	
CH Unplug				It's n OK. Return	
		Processing[5 s]			



 \bigcirc You can view and modify the server network configuration, APN settings of Hybrid UWB-GNSS Positioning Tag.

•		0	0	English 👻	
1 Info		UbiTrack			
Network Setup					
	Davion Address	Device Group			
(iii) APN Setup	Device Address F3640B0A	Device Group 0411			
💼 Meta	Current USB Port COM3	MAC Address D6:E9:53:26:F6:A5			
E) Unplug	Positioning Interval(Inactive) 1000 ms	Positioning Interval(Active) 200 ms			
	Channel 2	Firmware UT_TUG2_V0.2.1			
	Battery Power:	Host			
	3.19 Port	honggang.heatcloud.cn			
	8082	gps			
		Device Setup			
biTrack PC Tools - v1.2.3-cn				-	
UbiTrack			0	English 👻	
Info	👜 UT_TUG2_V0.2.1 🛛 🔛 D6:E9:53:26:F6:A5				
	Device Setup	2 Setup Device		3 Done	
Network Setup	Host	Setup Device		5 Done	
APN Setup	honggang.heatcloud.cn eg. 192.168.1.8				_
Meta	Port 8082				
	eg. 80 Uri				
Unplug	gps eq. gps				-
		Start Setup			
•					
JbiTrack PC Tools - v1.2.3-cn					
UbiTrack			0	English 👻	
	UT_TUG2_V0.2.1 UT_D6:E9:53:26:F6:A5				
Info					
Network Setup	1 Please enter APN information	2 Setup Device		3 Done	
APN Setup	APN *				
APN Setup	Please enter APN information				
	Username				
Meta	If no username, leave it blank.				
	Password				
Meta		Start Setup			
	Password	Start Setup			
	Password	Start Setup			
	Password	Start Setup			

8 PC tool also allows to modify and view information and configurations related to the anchor in a similar way to the tag.

UbiTrack			0	English 👻	
		UbiTrack			
Info					
Network Setup					
Server Setup	Device Address 61613336	Device Group 0411			
Tools	Current USB Port	MAC Address			
TOOIS	COM3 Host	00:80:e1:18:2b:3f			
Unplug	192.168.1.8	192.168.1.10			
	Backup IP	Firmware V0.2.36			
•					
					=
piTrack PC Tools - v1.2.3-cn			0		
Outrack			· · ·	English 👻	
Info	(00:80:e1:18:2b:3f				
				•	
Network Setup	1 Device Setup	2 Setup Device		3 Done	
Server Setup	IP Type: O Auto O Manual				
	192.168.1.10 eg. 192.188.0.10				
Tools	Subnet Mask 255.255.255.0				
Unplug	eg. 285.285.265.0 Gateway				
	192.168.1.1 og. 192.188.0.1				
	DNS Server 8.8.8.8				
	eg. 8.8.8				
	Alternate DNS Server				
	eg. course	Start Setup			
		Start Setup			
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piTrack PC Tools - v1.2.3-cn					
UbiTrack			0	English 🗸	
	• V0.2.36				
Info	₩ V0.2.36 🕒 00:80:e1:18:2b:3f				
	1 Device Setup	2 Setup Device		3 Done	
Network Setup	Review Utility			•	
Server Setup					2
	wg- raw-raw-ray	Start Setup			
Table		Start Setup			
Tools					
Tools					