

KAT WALK

VR Omni-directional
Treadmill

User Manual



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Starting Installation

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About the User Manual

This User Manual contains all the information necessary for the installation and use of KAT WALK VR Omni-directional Treadmill

The following signs are used in the Manual to indicate useful and important information:



Caution. It generally provides additional information helpful in completing a task, as well as information that applies only to certain cases.



Indication. It provides you with an understanding of options that might be of help to you.



Important information. It means you must follow the instructions stated in the Manual to complete one or more software/hardware installations or settings.



Safety warning. It reminds you of your own safety when you carry out a task. You must pay special attention to such information to prevent any potential safety problems.

Declaration

KNT VR is the trademark of KAT VR Co., Ltd. All the trademarks, product identifications and commodity names of other companies in the Manual are owned by their respective legal owners. No organization or individual is allowed to extract or copy part or all the contents of this Manual, or disseminate them in any form or use them for any commercial purposes without the written approval of the Company.

The contents of this Manual are subject to changes as a result of product upgrading or other causes. We reserve the right to revise the contents without any prior notice or indication. The Manual serves only as a guidance for product use, and while we make our best efforts to provide as accurate information as possible, we do not guarantee an error-free Manual. The statements, information or advice in the Manual shall not constitute any explicit or implicit guarantee.



Please visit our website for updated information
<http://www.katvr.com>

Safety

Risk of site selection

- Please DO NOT place the product in the following places:
 - Outdoor places with direct sunlight. Unsteady places or places with inclination or vibration. Exhibition stands or places made of glass that cannot bear the required load. Disaster prevention places where safety exits are blocked or places with firefighting equipment.
- For shifting to another place after the installation, please strictly follow the steps of dismantling and installation, use the same packing materials with the original to pack the equipment, and choose a quality logistics or transportation company. Otherwise, it may cause damage to the equipment.

Risk of electric shock or fire

- Please DO NOT expose the product to rain or water or put containers containing liquid near the product. In the case of any accidental water spatter or leakage into the inside of the machine, please immediately contact KAT customer service center for an inspection before reuse of the product.
- Please DO NOT expose the product and its accessories to fire or heat and try to avoid direct sunlight.
- Please do not insert any item into the product vents or other openings.
- Please turn off all the relevant power supply before pulling out the plug and DO NOT randomly cut off the power supply to the product.
- Please pull out the plug before a thunderstorm.
- Please plug out by pulling up the plug instead of directly pulling the cable.
- Please make sure the socket voltage is consistent with the value printed on the back of the product or in the instruction manual before connecting the product to a socket. Otherwise, please do not make the connection.



Safety Reminder

As the use of the product by players weighing more than 100kg may result in destructive damage to KAT WALK, which in turn leads to potential safety risks. Therefore, those players should not use KAT WALK for the safety of themselves and the service life of KAT WALK.

As the height of the product is limited and players of over 190cm tall tend to hit the equipment, those players should not use KAT WALK for their own safety.

Caution

Failure to follow the above instructions may lead to injury or bad consequences and KAT will not be held responsible for it.

Maintenance

Maintenance of base plate

Once KAT Shoes match the materials of the KAT WALK base plate, there will be a fixed friction coefficient, which is the balance point for the best experience. Thus, abrasion to the base plate will influence the product experience and the service life of the base plate. In view of that, please note the following before the use:

- Prevent the base plate from contacting with non KAT Shoes or any other object.
- Make sure the base plate is clean without any dirt before using the machine every day. If necessary, please apply a drop of the complimentary equipment dedicated maintenance oil (only one drop is needed).
- Check if there is any dirt on the sole sliders and wheels of KAT Shoes.

Instructions for regular examination of girdle

When a customer weighing beyond the limit (>100kg) or with an overly sized waist, please duly check if the girdle set has deformed. It is advised to conduct a regular examination on the girdle set every other week, mainly checking if the bolt at the connection on the back of the girdle set has loosened, if the washer at the bolt bottom has come off, and if the girdle set has deformed. Any problem of the girdle set may cause safety issues. As it is a component that is prone to wear and tear, the warranty period for it is three months from the issuance of the invoice. Please immediately contact the after sales service by dialing the KAT hotline if any of the above situations occur.

Instructions for daily maintenance of three-in-one cable and sensors power supply cable

It is necessary to carry out the daily maintenance of the three-in-one cable and the sensors power supply cable to prevent them from being damaged due to entanglement. Check if the three-in-one cable and the sensors power supply cable have any tangling every day by following the steps below:

- Step one: entanglement of the three-in-one cable and the sensors power supply cable (tangling): based on the tangling direction, rotate the connecting rod in a reverse direction until the three-in-one cable is separated from the sensors power supply cable.
- Step two: twisting of the three-in-one cable (twisting, and marked wrinkles can be seen on the outside): take off the head-mounted display, and based on the twisting direction, rotate the display in a reverse direction until the cable returns to the smooth state with no twist.

Health Warnings

The following health warnings will be updated on an irregular basis for accuracy and completeness

- Please read the User Manual before using the product and follow the instructions to do the settings. Incorrect settings may increase the risk of discomfort.
- Pregnant women, the elderly, or those with visual disorder, having a medical history of mental illness or were once affected by serious medical conditions such as heart disease, are advised to consult a doctor before using the product.
- As different people have different constitutions, use of the product for a long time is not recommended in case of any discomfort, such as giddiness, dizziness or headache. If you feel any discomfort, please immediately stop using it and do not engage in any activities that may involve danger (such as driving), until all the symptoms are gone. If the symptoms persist, please do not continue to use the product without consulting to a doctor.
- If the user has a medical history of epilepsy or photosensitive epilepsy, please consult a doctor before watching such VR contents as flashing light sources or fast image sequences.
- Children should use the product under their parents' administration to prevent any of the above mentioned discomfort. As the visual system of children under 13 years old is not fully developed, they are not advised to use the product.
- It is not advised to use the product for too long for the first time (limit it within a few minutes). The duration should be increased bit by bit only after the gradual adaption to the virtual reality.
- A comfortable VR experience requires intact sense of movement and balance. Thus, if users who are tired, need sleep, are affected by alcohol or drugs, are under hangover, nervousness or anxiety, or have a headache or earache, are strictly prohibited from using the product. Otherwise, it will lead to more severe discomfort.

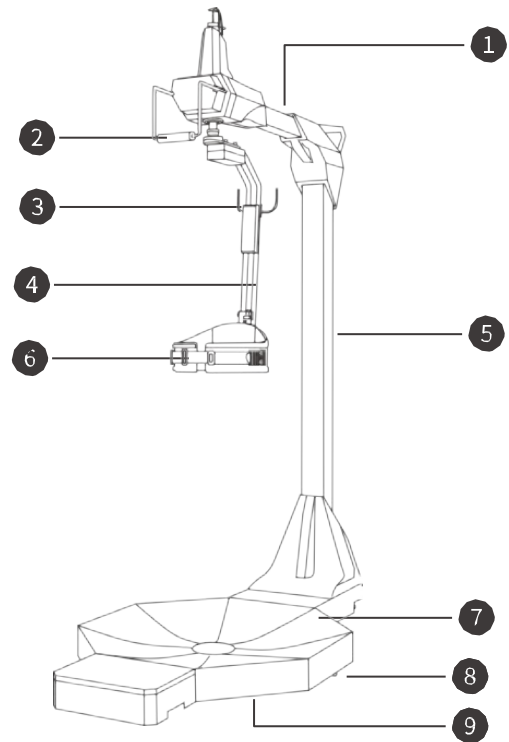
KAT WALK

Product Introduction

KAT WALK is a VR multi-direction mobile platform, which is also called VR treadmill. It breaks the virtual and real-life space limit, enabling users in extremely small space in reality to carry out 360° boundless movements in the virtual world through the combination of different components including the VR head-mounted display.

Product Appearance

1	Girder
2	Safety railing
3	Equipment storage hook
4	Connecting rod
5	Support pillar
6	Girdle set
7	VBase plate
8	Base plate holder
9	Equipment mobile wheel set



Parameters

Total weight	191kg (421lbs)
Height	2.6m (8' 6")
Occupying an area of	2.06m ²
Suitable for people of	9 - 55 years old
Suitable for people of	150cm - 190cm tall (4' 11" - 6' 3")
Suitable for people of	≤100kg (220lbs)
Data port	USB2.0 / USB3.0
Refresh rate	1000Hz
Comfortable and adjustable from to that is suitable for waistline	60cm (1.96ft) 120cm (3.9ft)
Product frequency range and output power:	2402-2480MHz, 0dbm-4dbm



Caution

Patients with heart disease are prohibited from using the product!

* KAT SHOES

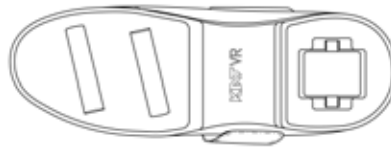
Product Introduction

KAT SHOES are specially designed for the KAT WALK base plate. For the best game experience with the feeling of a natural walk, it is necessary to have a fixed ideal friction coefficient, which can be exactly provided by KATWALK. KAT WALK produces the foot curves and the displacement in human's walking through a constant rolling friction, and with the support of the base plate, creates the moving track of legs and feet. As a result, KAT SHOES become the key balance

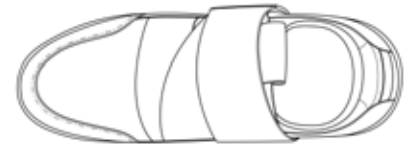
Product Appearance



(side view)



(bottom view)



(top view)



Caution

KAT SHOES are KAT WALK dedicated shoes with a special sole design. For your own safety, please do not walk in other places than on the KAT WALK base plate in the Shoes.



Important Indications

Those with * are optional accessories, which need to be purchased separately.

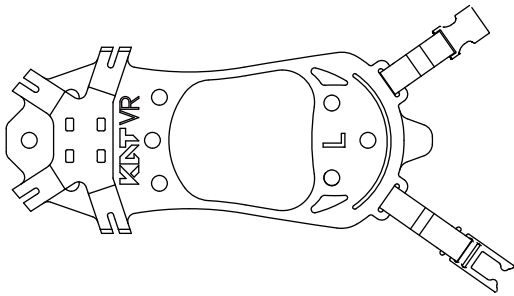
* KAT SHOES COVER

Product Introduction

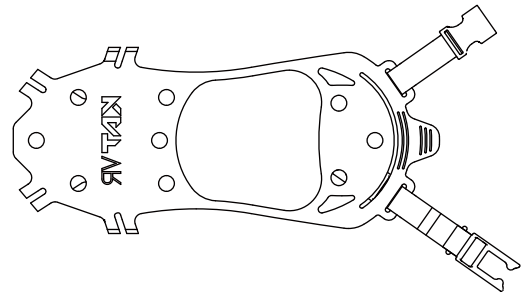
KAT SHOES COVER is the dedicated cover designed for the KAT WALK base plate. For the best game experience with the feeling of a natural walk, it is necessary to have a fixed ideal friction coefficient, while KAT WALK produces the foot curves and the displacement in human's walking through a constant rolling friction, and with the support of the base plate, creates the moving track of legs and feet. As a result, KAT SHOES COVER becomes the key balance point for the best experience. The KAT SHOES COVER doesn't require you to change your shoes, you can simply wear it on top of your shoes. Reducing the time required to get on the treadmill.

You don't need to change shoes if using KAT SHOES COVER and can get on the treadmill faster.

Product Appearance



(top view)



(bottom view)



Caution

KAT SHOES COVER is dedicated for KAT WALK with a special design. For your own safety, please do not walk in other places than on the KAT WALK base plate in the Cover.



Important Indications

Those with * are optional accessories, which need to be purchased separately.

List of Items

Main equipment	Item
KAT WALK	• girder
	• connecting rod
	• support pillar
	• base plate
	• girdle set
	• Connecting cables and grounding plug
	• KAT SENSORS
KAT WALK Shell	• metal plate at the bottom of support pillar *2
	• shell at the bottom of girder *2
	• Pedal
	• 20cm foam pad
Tool	• KAT WALK maintenance oil
	• inner hexagon spanner, open spanner 22-24, screw box.

Installation Instructions

- Please carefully read the relevant information provided in this Manual before installing the KAT WALK.
- As the product is quite heavy, please arrange more than three male adults for the installation.
- Please keep the power off during the installation to avoid any potential safety risk.
- Please place a foam pad of more than 20cm thick (included in the packing box) when installing the support pillar to prevent the shell from being damaged.
- When the product is working, please do not install or dismantle without permission to protect yourself from the current, and do not open the product even when it is not working.



Caution

As there are quite many cable ports, please prepare at least one three-hole plug and four two-hole plugs, and as the adapter is big, please make sure there is sufficient space between plugs.

Tool Preparation

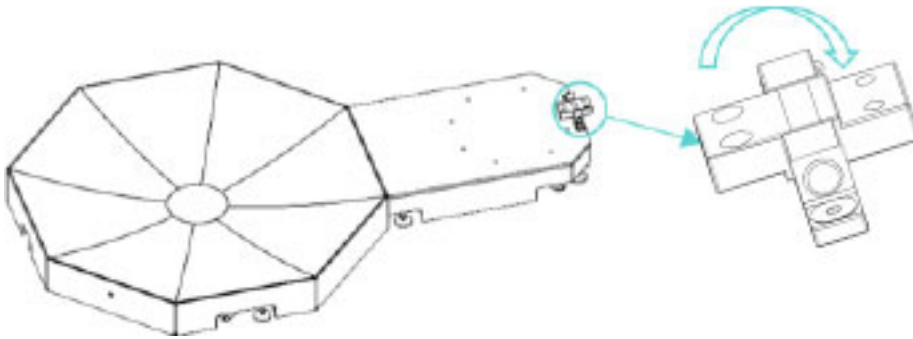
Open the complimentary KAT WALK dedicated tool box, which contains the following:

- One bottle of KAT WALK maintenance oil
- A set of inner hexagon spanners
- One open spanner 22-24
- One screw box
- One hook spanner 45-52

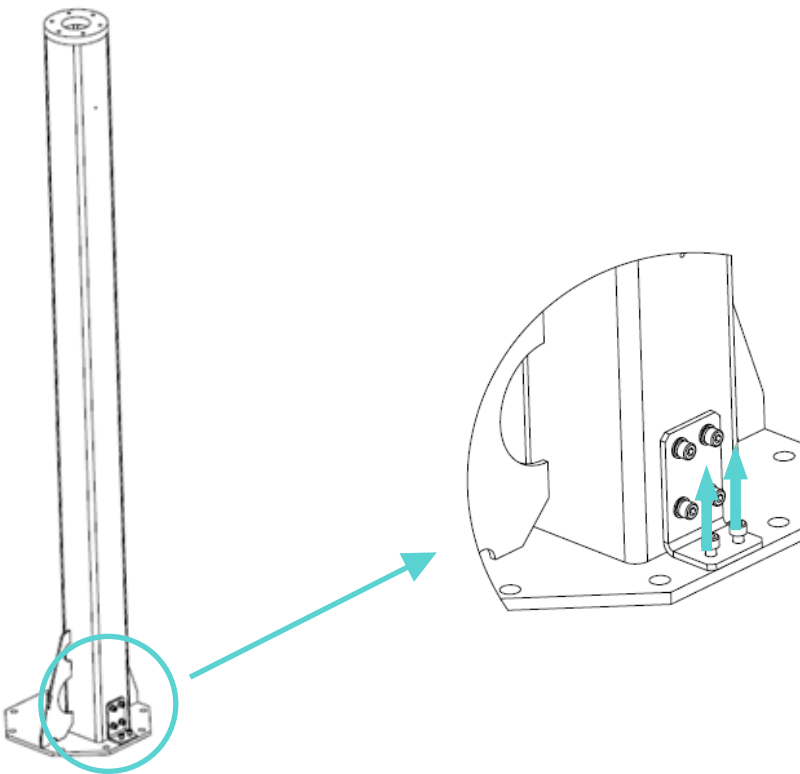
Installing the KAT WALK Multi-Direction

Installing the Mechanical Structure

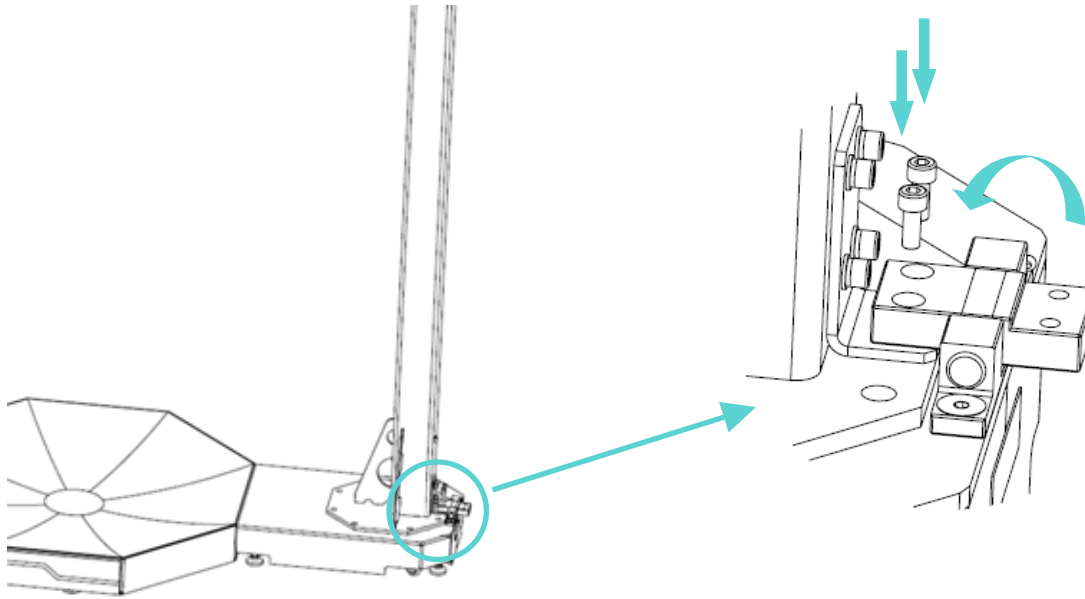
1. Place the base plate on a flat and open floor and use the spanner to adjust the base plate holder to prevent the plate from sliding.
2. Turn the metal hinges on the base plate towards outside.



3. Unscrew the two bolts on the support pillar.



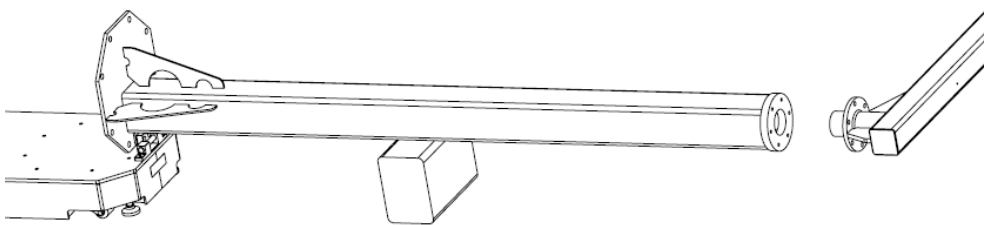
4. At least two persons lift the support pillar and place it at the location on the base plate as shown in the figure. Turn the hinges to direct the holes on the hinges at the screw holes on the support pillar, and re-install the bolts unscrewed at the last step.



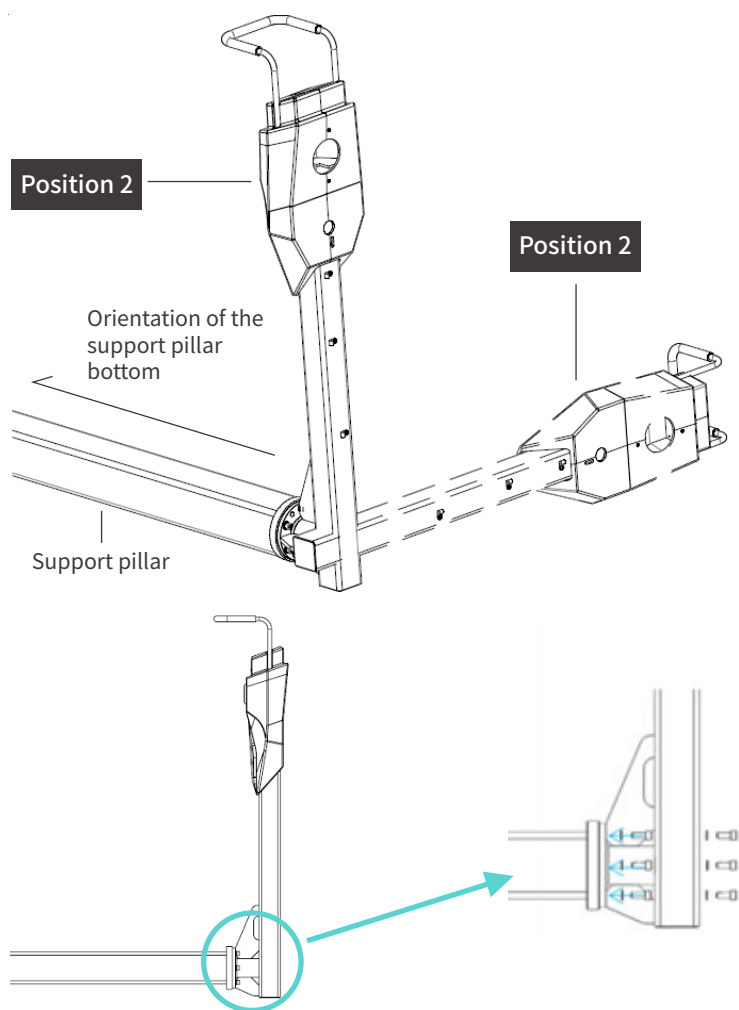
5. One person holds the pillar to prevent it from toppling, while the other one place a 20cm foam pad (included in the packing box) at the location where the pillar lies.

6. Place the pillar down with caution.

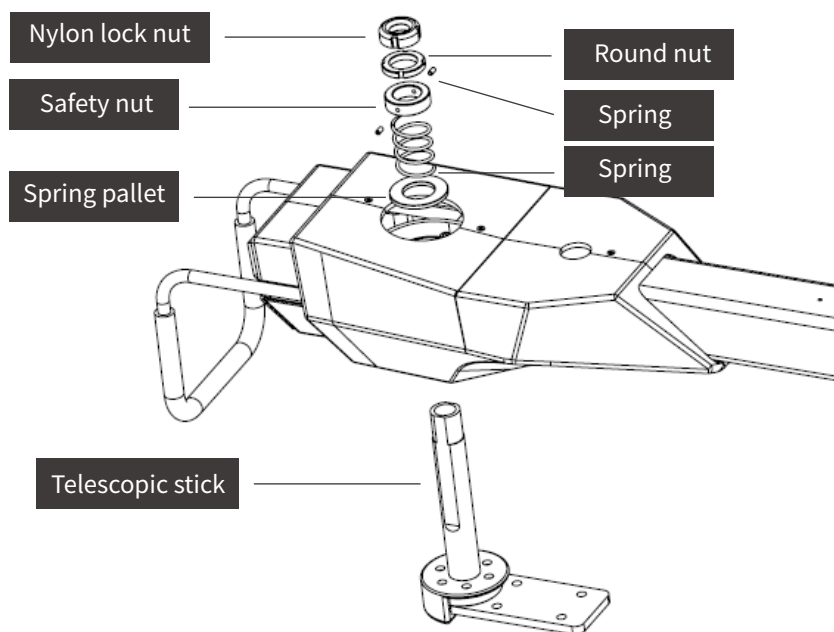
7. Insert the girder into the support pillar with the flanges closely contacting with each other.



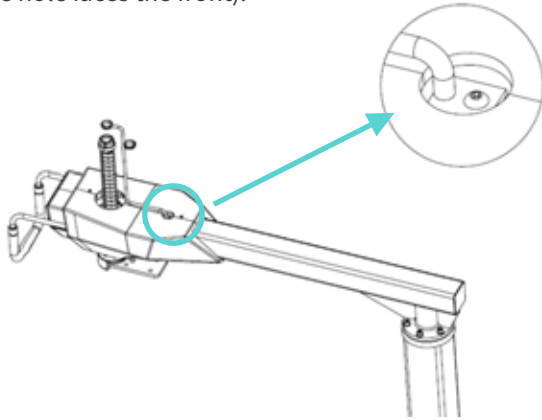
8. One person holds the support pillar, while two other persons turn the girder so that it rotates from a lying position (position 1) to a 90° angle (position 2). Place the bolt at the connection between the girder and the support pillar in the washer and fasten it.



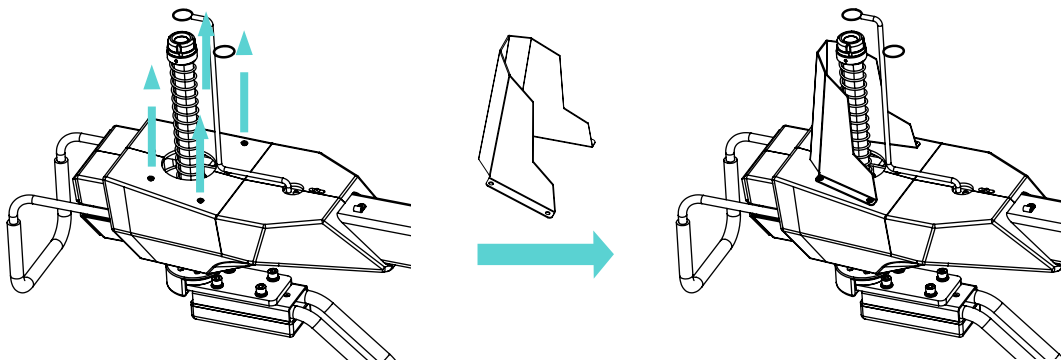
9. As shown in the figure, insert the telescopic stick into the round hole at the front of the equipment, and slot the spring pallet and the spring into the stick; then screw the safety nut onto the stick and the M5 set screws (two) to the side of the stick; screw the round nut into the stick, and use the hook spanner to tighten it; finally slot the nylon nut into the upper end of the stick and tighten it.



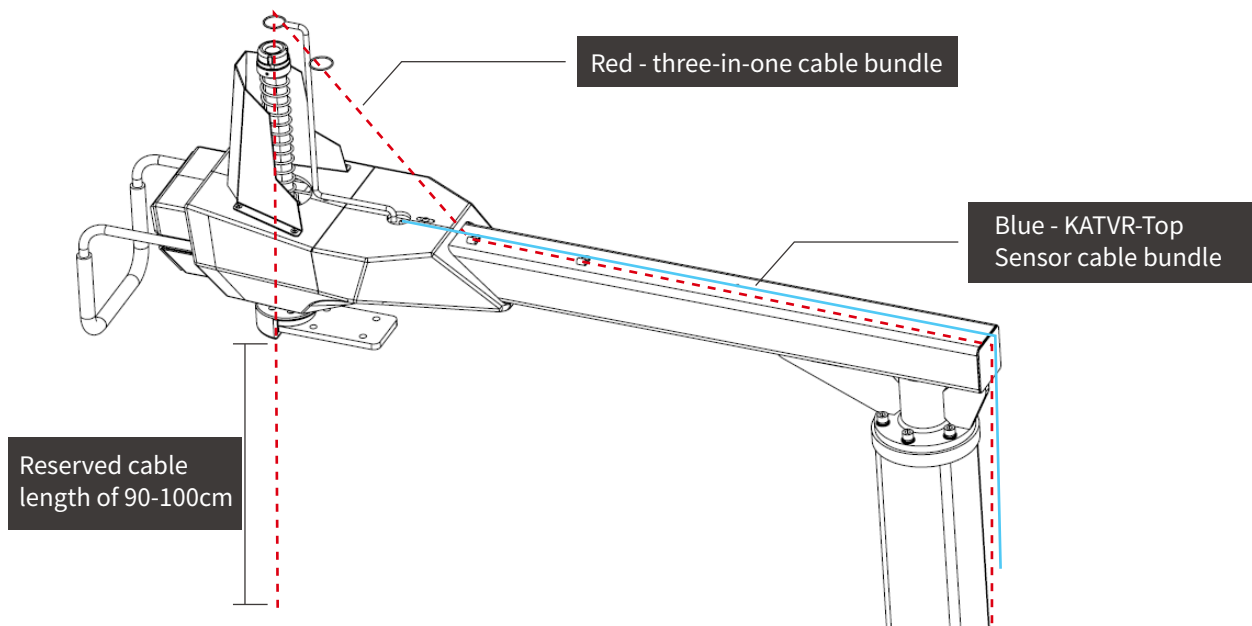
10. As shown in the figure, use the M5 screw to fix the cable at the corresponding position at the girder head (note: the top cable hole faces the front).



11. Unscrew the screw on the top cover off the shell. Install the top cover to the front end of the girder and use the unscrewed screw to fasten it, as shown in the figure.



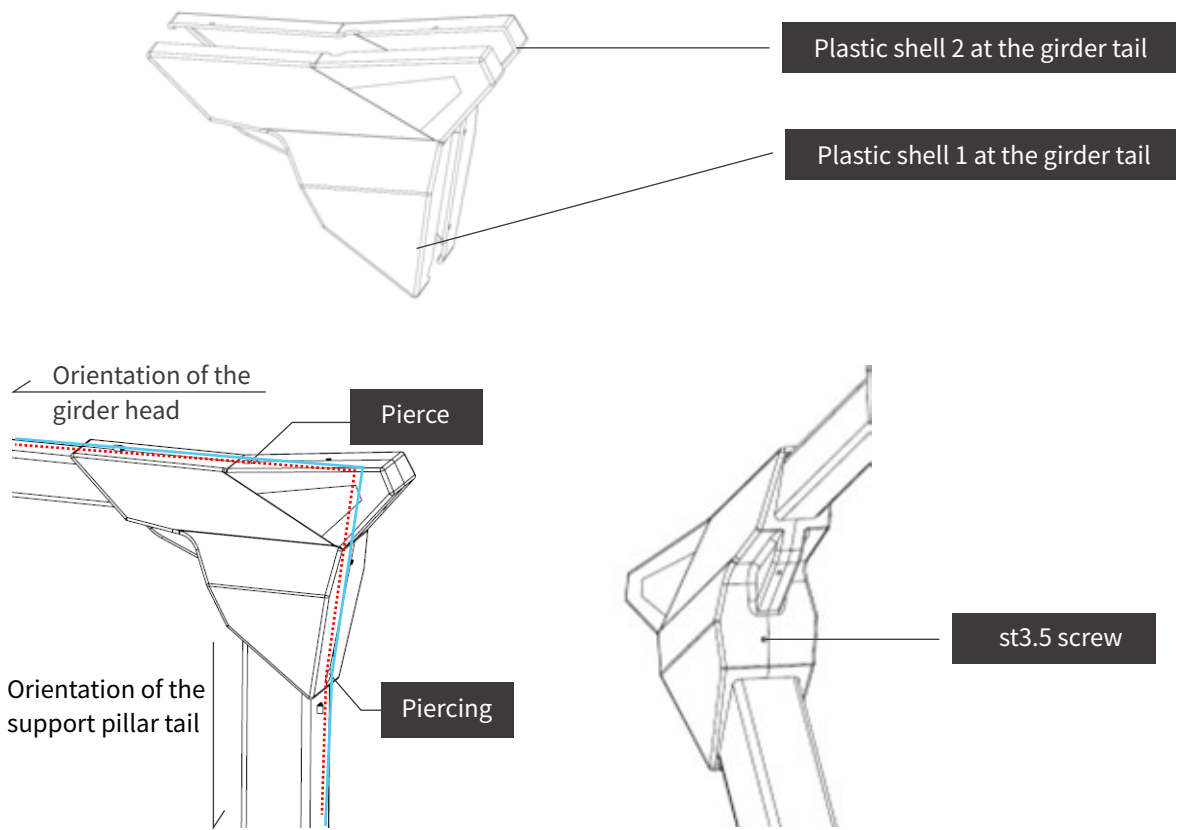
12. Put in the three-in-one cable (the red dotted line in the figure) from the lower end of the telescopic stick and pull it out from the upper end. Put the sticking three-in-one cable and the KATVR-Top Sensor cable through the girder and fasten them with the R-shaped clips (the two clips on the girder have been installed to the square tube).



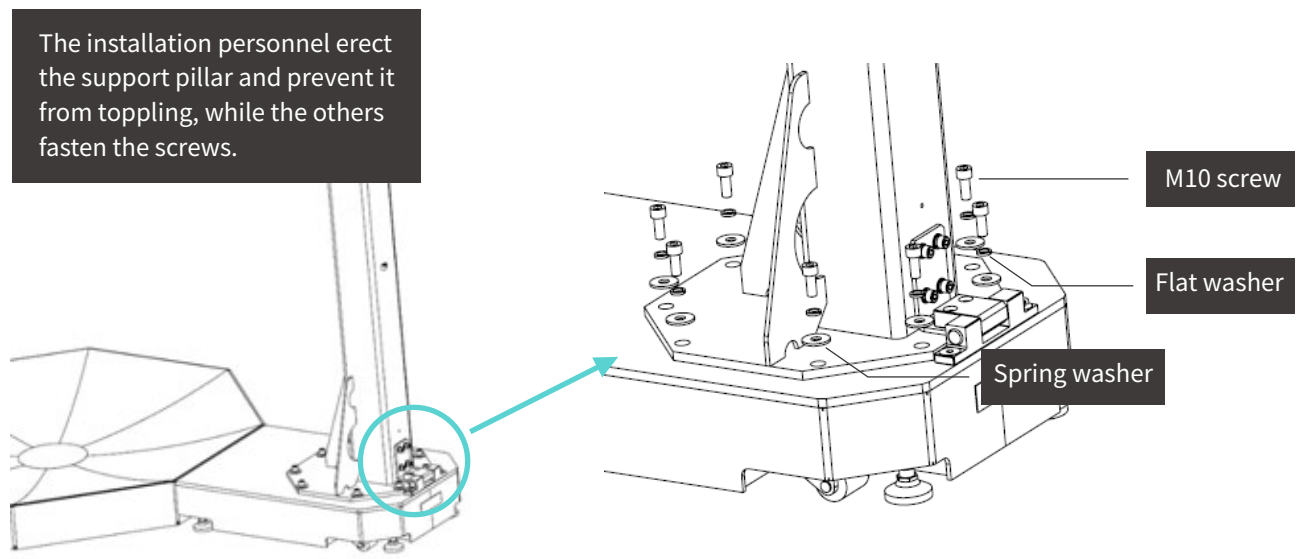
Caution

The product accessory clips are used to tighten the three-in-one cable and the KATVR-Encoder cable and users need to tighten them on their own.

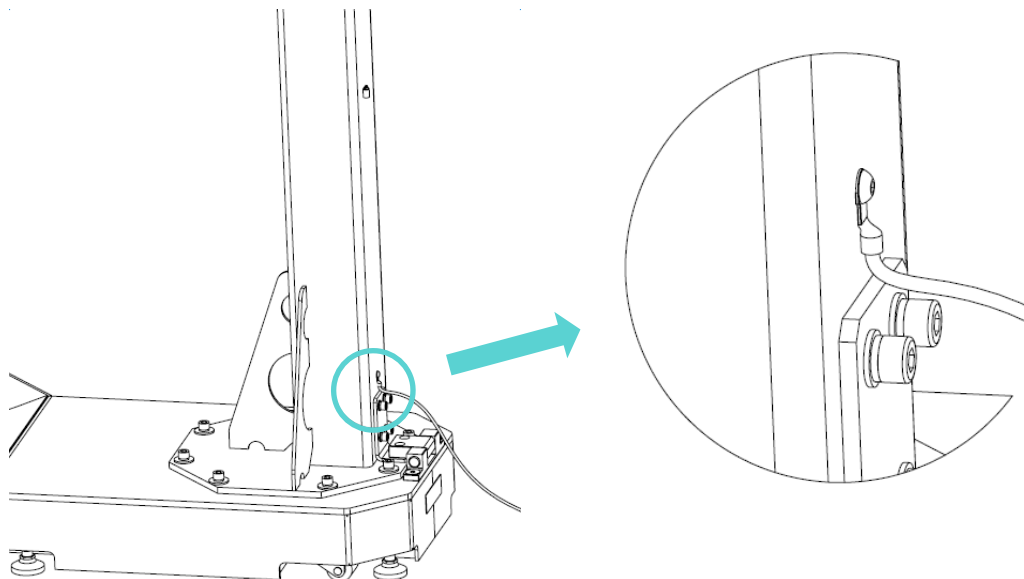
13. As shown in the figure, install the shell at the girder tail, put the three-in-one cable and the KATVR-Encoder cable through the shell and tighten them with the R-shaped clips.



14. The installation personnel erect the support pillar and one male adult should hold it to prevent it from toppling, while the others install the set screws and make sure they are tightened.



15. Installing the ground plug: as shown in the figure, install the grounding plug onto the support pillar and tighten the screws. Note: The screws have been installed onto the support pillar upon delivery and the grounding plug is included in the accessory box.



16. Installing the support pillar bottom shell: slot the support pillar bottom plastic shell 1 into the pillar and adjust it to the appropriate position. Install the pillar bottom plastic shells as shown in figure 3.1.3 and use the st3.5 screw to tighten. Lock the st3.5 screw when fine adjusting it to the position shown in figure 3.1.4.

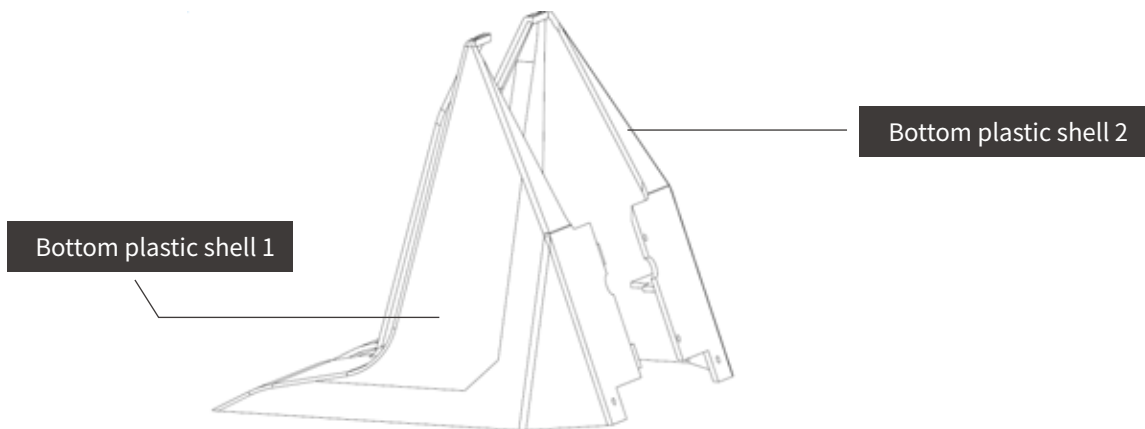


Figure 3.1.3

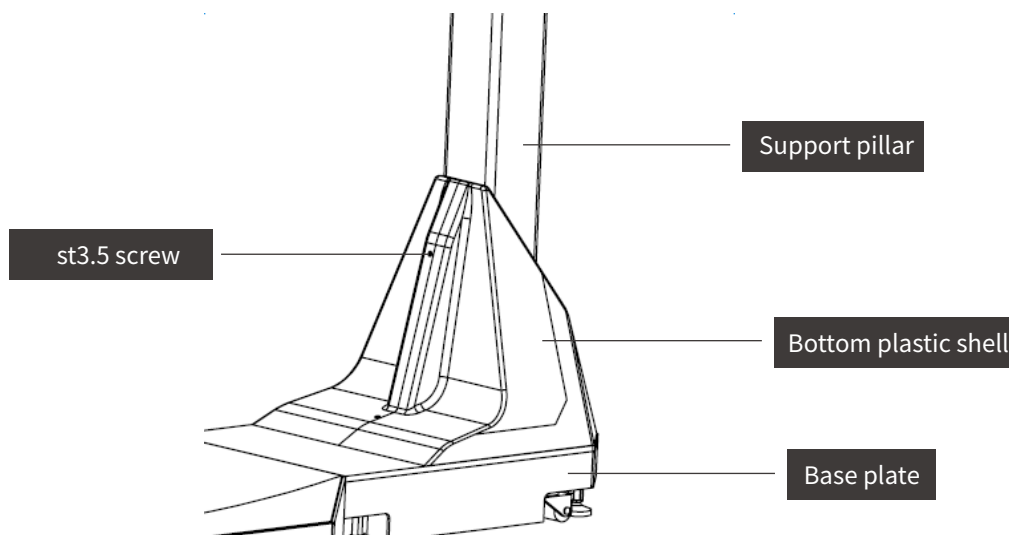
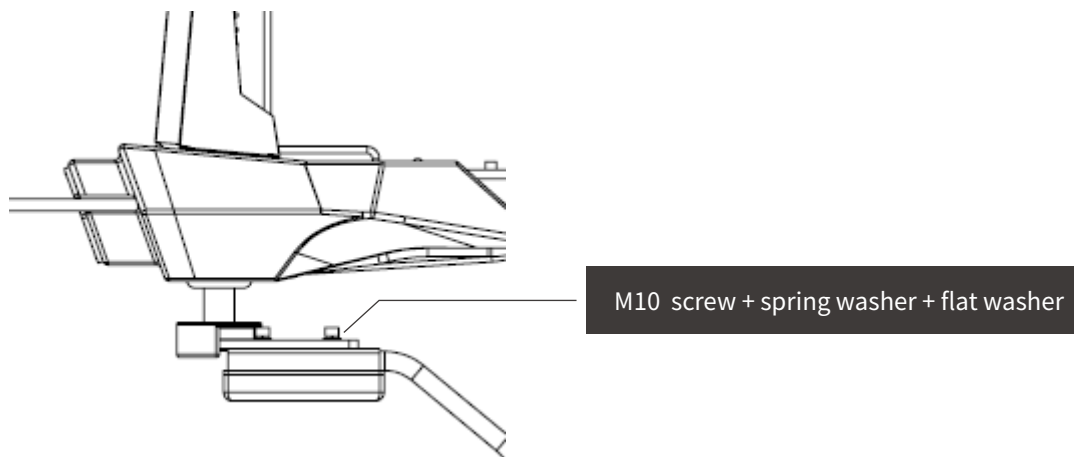
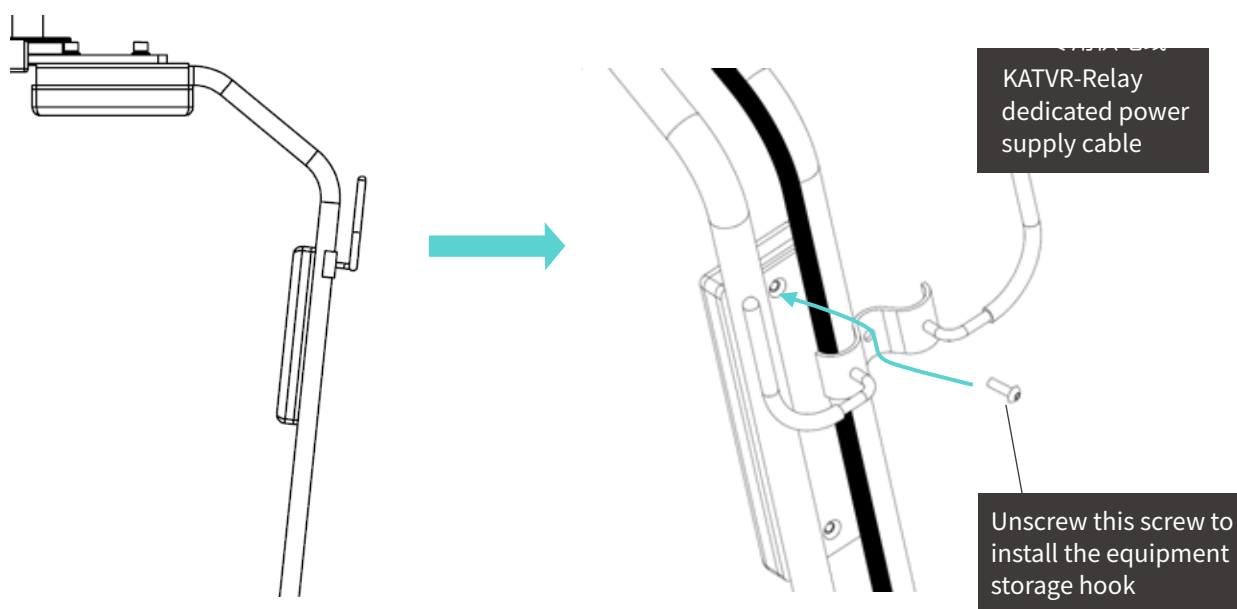


Figure 3.1.4

17. Install the connecting rod. One person stands below the telescopic stick and pull the stick to the bottom, one person directs the connecting rod at the hole on the connecting panel of the telescopic stick, and another person installs the bolt to fix the connecting rod.



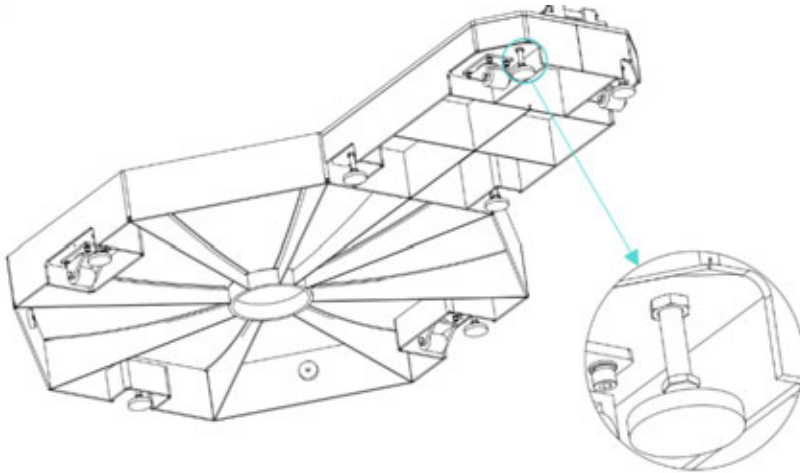
18. Install the equipment storage hook. Unscrew the screw off the connecting rod, put it through the installation hole on the equipment storage hook and fix it onto the connecting rod.



19. Loosen the base plate holder, move the KAT WALK to an appropriate position, re-fix the holder to prevent the KAT WALK from sliding, and finish the installation.

20. Installing the pedals: As the upper surface of the KAT WALK base plate is concave and to enable users to better use our equipment, pedals that perfectly match the base plate are added under the support of the railings on the upper end of the girder. There is no need to install the pedals, which can be matched directly with the base plate. They are fixed onto the plate through their own weight with no connection between them and the plate.

Instructions for the Base Plate Holder



There is an upper nut and a lower nut on the base plate holder, with the lower one adjusting the holder, while the upper one fixing it. Please do tighten the two nuts when fixing the KAT WALK.

1. When moving the KAT WALK, turn the upper nut on the base plate holder clockwise to move the nut down, and turn the lower nut counter clockwise to move the nut up. With the base plate holder shortened, the KAT WALK can be moved.
2. When fixing the KAT WALK, turn the lower nut on the base plate holder clockwise to move the nut down, and turn the lower nut counter clockwise to move the nut up.

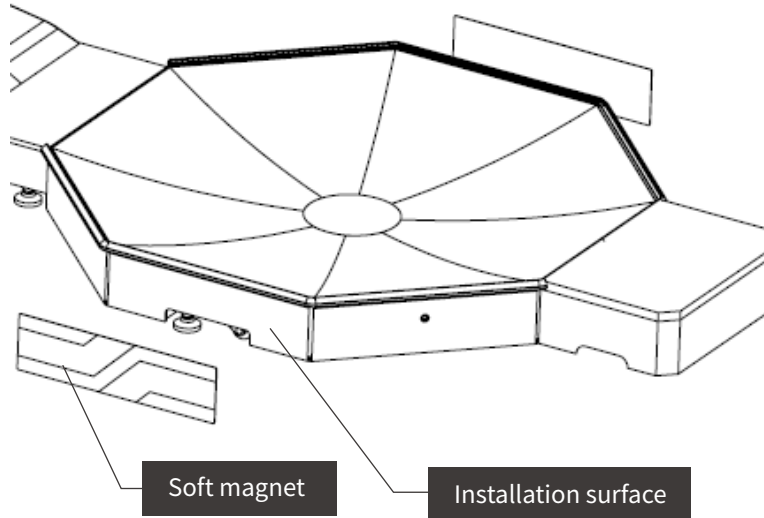


Caution

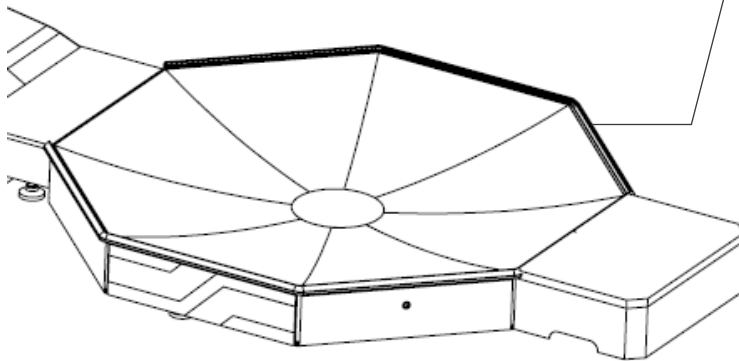
1. The proper and steady installation of the support pillar structure allows the user to have a good experience, and thus, please check if the support pillar is correctly and steadily installed.
 2. During the installation, avoid putting any items on the base plate and do not randomly step on the base plate in case of any damage to it, which spoils users' experience.
 3. After the installation, check if all the bolts and nuts are fastened.
 4. Please turn off the power and make sure all the circuits are power off to avoid potential risks before installing the circuits.
 5. As the length of the three-in-one cable for the head-mounted display is limited, please watch out for the length of the remaining cable when connecting the circuit on the girder.
 6. As there are quite many circuits, please differentiate the connection at all the interfaces.
 7. If a bolt is not fully concentric with its hole during the installation, please slightly turn the component to make them concentric.
-

Installation of KAT WALK Magnetic Side Plates

Our product is equipped with the KAT WALK magnetic Side Plates for aesthetics and protection for the mechanical structure. Install the magnets to the installation surface on the left and the right of the base plate.



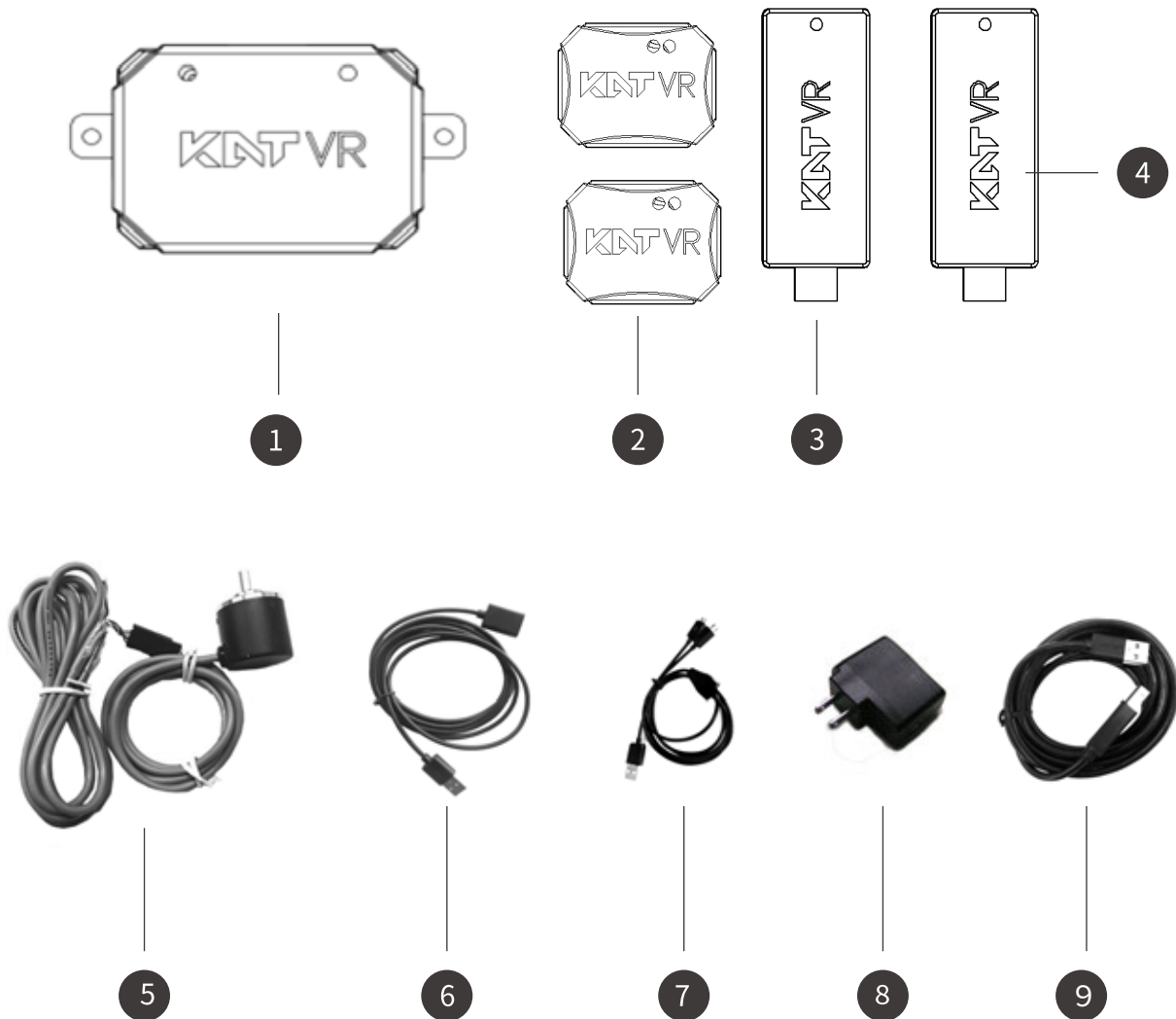
As the side plate is magnetic, we only need to put the magnet close to the installation surface as shown in the figure, and it will be attracted towards the surface. Adjust it so that it is in the center of the surface.



Connection of KAT SENSORS

List of Included Sensors

Welcome to use a combination of KAT-SENSORS, and the Sensors you have received consist of the following



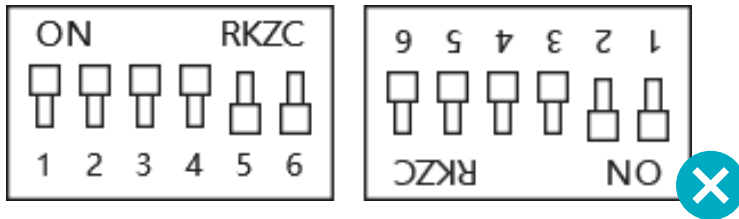
1	KATVR-Back Sensor	Already installed to the connecting rod
2	KATVR-Foot Sensor	
3	KATVR-Central Sensor	Port for the KATVR-Top Sensor on the side
4	Wireless receiver	No port for the KATVR-Top Sensor on the side
5	KATVR-Top Sensor	Already installed to the girder
6	USB-A type extension cable	One for connecting the KATVR-Central and sending the KATVR-Back data to PC The other for connecting the wireless receiver and sending the two KATVR-Foot Sensor data to PC
7	Charging cable	Charging KATVR-Foot Sensor
8	Charger	Charging KATVR-Foot Sensor
9	Charging cable	Charging Back Sensor

Pairing Sensor

The KATVR-Central and the KATVR-Back Sensor can only be used after being paired, and the two KATVR-Foot Sensor can only be used after being paired with the wireless receiver.

Pairing of KATVR-Central and KATVR-Back Sensor

The KATVR-Central and the KATVR-Back Sensor are paired when the six-digit dialers are dialed to the same position. Similarly, dialing the dialers to different positions can prevent communication interference for the KATVR-Central and the KATVR-Back Sensor between different equipment. Please note the positions of ON and the digits 1-6 as shown in the figure, which are wrong:



Caution

Within the same place, all the KATVR-Central dialing values should differ from each other, and so it is for the KATVR-Back Sensor dialing values.

Otherwise, the KATVR-Central of one piece of equipment might connect to the KATVR-Back Sensor of another.

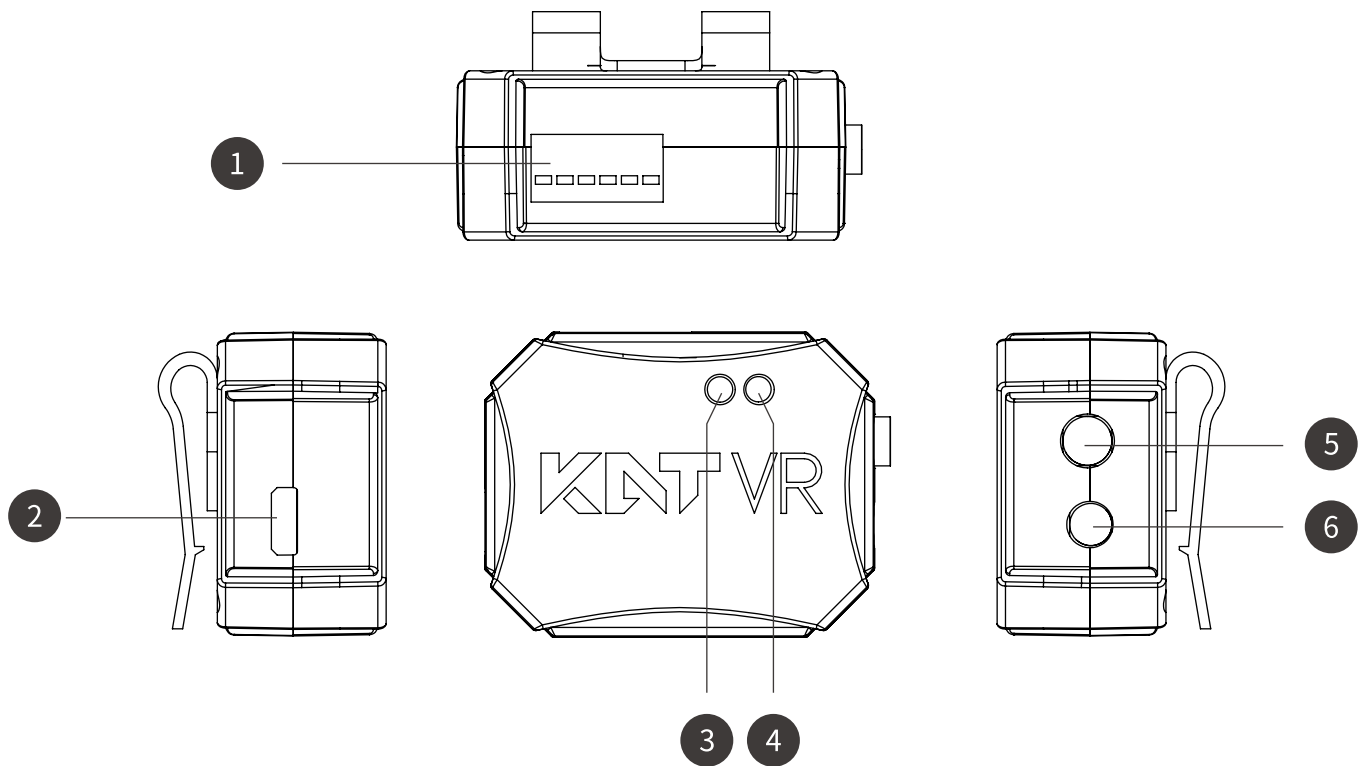
Within the same place, all the wireless receiver dialing values should differ from each other, and so it is for the KATVR-Foot Sensor dialing values.

Otherwise, the KATVR-Foot Sensor of one piece of equipment might connect to the wireless receiver of another.

Pairing of the KATVR-Foot Sensor Modules

The two KATVR-Foot Sensor and the wireless receiver are paired when the six-digit dialers are dialed to the same position. Dialing the dialers to different positions can prevent communication interference for the KATVR-Foot Sensor and the wireless receiver between different equipment. Please note the positions of ON and the digits 1-6.

KATVR-Foot Sensor



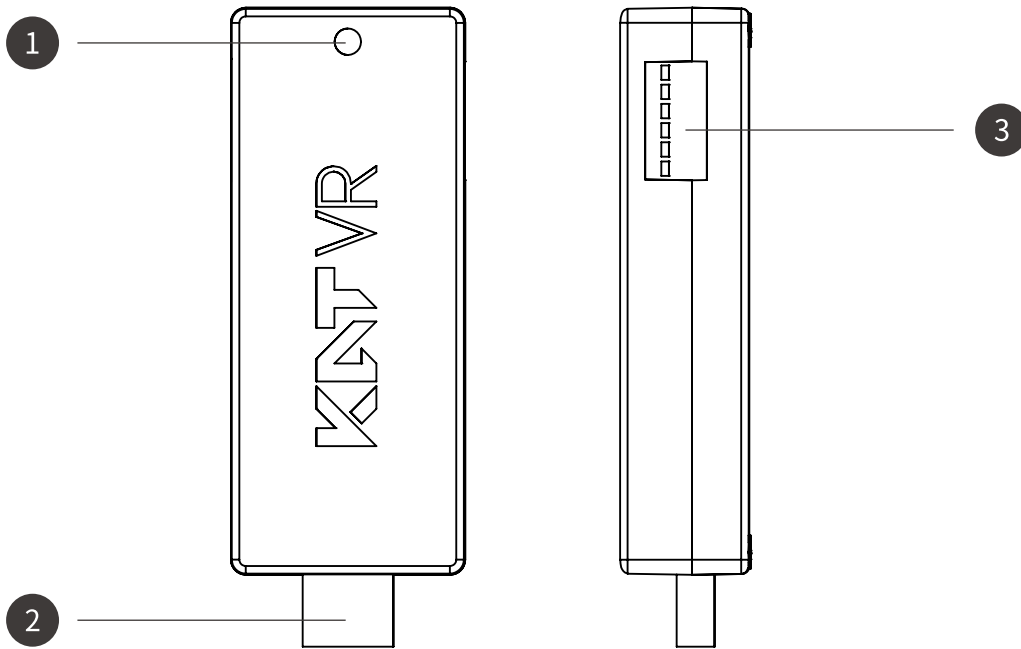
1	Six-digit red dialer
2	Charging port
3	Working indicator
4	Charging indicator
5	Switch button
6	3.5MM jack

**Caution**

Working indicator: red means it is not connected to the wireless receiver; blue means it is connected to the wireless receiver; flashing means a low charge level.

Charging indicator: red means it is being charged; blue means it is fully charged. Turn off the switch when not using the KATVR-Foot Sensor to reduce the consumption of the battery charge level.

Wireless Receiver



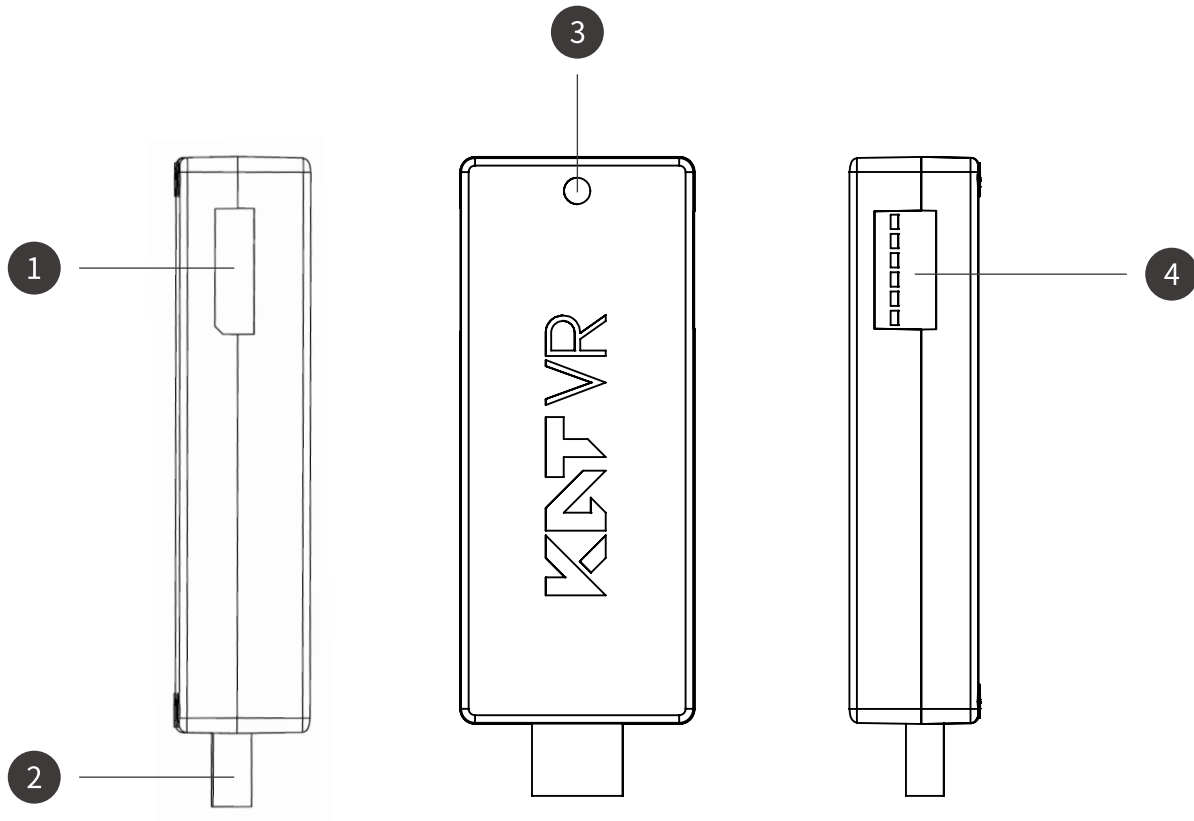
1	Working status indicator
2	USB A type male connector
3	Six-digit red dialer



Caution

Working indicator: red means that it is not connected to the two KATVR-Foot Sensors or only connected to one KATVR-Foot Sensor; blue means it is connected to both of the KATVR-Foot Sensors.

KATVR-Central

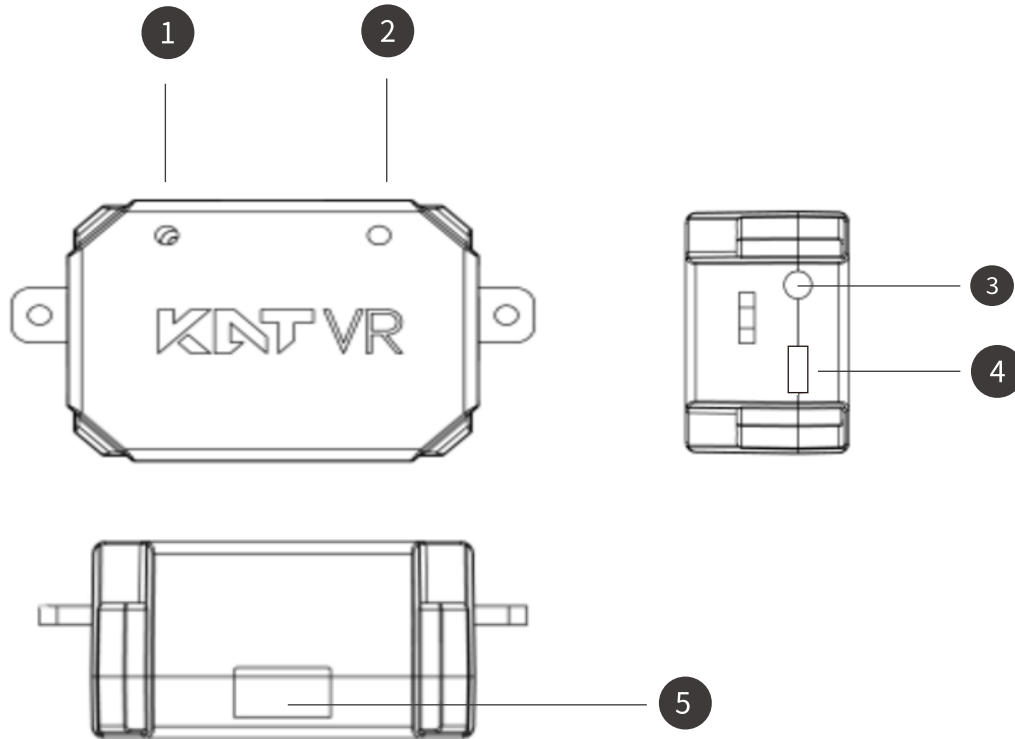


1	Working status indicator
2	USB type A male connector
3	KATVR-Encoder connecting cable port
4	Six-digit red dialer

**Caution**

KATVR-Encoder working indicator: red means it is not connected to the KATVR-Back Sensor;
blue means it is connected to the KATVR-Back Sensor.

KATVR-Back Sensor



1	Working status indicator
2	Charging status indicator
3	Red button switch
4	Micro USB charging port
5	Six-digit red dialer

**Caution**

Red indicator: when it is on, it means the power supply to the KATVR-Back Sensor is normal but it is not connected to the KATVR-Central.

Green indicator: when it is on, it means the KATVR-Back Sensor is connected to the KATVR-Central.

Connecting Sensors

1. Dial the 6-digit red dialer of KATVR-Back Sensor to match the 6-digit red code of KATVR-Central Sensor. When dialing, note the distinction of the digital direction and the position of ON on the encoder.
2. Dial the six-digit red dialer for the wireless receiver to the same position as that for the two KATVR-Foot Sensor.
3. Connect one end of the USB-A type extension cable for the wireless receiver to the receiver and insert the other end into the USB port of the PC.
4. Insert the other end of the KATVR-Top Sensor connecting cable into the KATVR-Top Sensor port on the side of the KATVR-Central Sensor.
5. Connect one end of the USB-A type extension cable to the KATVR-Central Sensor and insert the other end into the USB port of the PC.

Power Switch

Upon confirming the proper installation and connection of the product, press the power button for all the devices

a. Check if the handles are fully charged. You may check the control handle battery charge level when not running any program or upon opening the main control panel of the system. When the battery charge level is insufficient, the indicator will display a red dot. Use the accessory power adapter and the USB data cable to charge each control handle. When the handles are powered on and fully charged, the status indicator will display green color (powered on) or white color (powered off).

b. Connecting base station to power

The base station needs continuous power supply when being used and it is advised to install a power socket near the station.

c. Power supply to KATVR-Back Sensor

1. Power for the KATVR-Back Sensor is supplied through the USB dedicated power supply cable tied to the back of the connecting rod. Supply power to the head-mounted display before the use.

2. The power for the KATVR-Back Sensor is supplied by the portable power bank. Fix the power bank to the connecting rod and connect the power bank to the KATVR-Back Sensor with the KAT dedicated power cable. Make sure the power bank has sufficient power before the use.

d. The PC is Powered on



Caution

The sensors require continuous and extremely low constant current for their operation, and the traditional portable power banks in the market cannot meet the requirement, please use the KAT dedicated and independent power bank set to ensure the proper operation of the sensors.

Checking the Status of Sensor Indicators

Location	Indicator	Red	Blue	Off
KATVR-Central Sensor	Working indicator	KATVR-Central Sensor normal power supply and running, not connected to the KATVR-Relay	KATVR-Central Sensor normal power supply, connected to the KATVR-Relay	Not connected to the PC
Wireless receive	Working indicator	Wireless receiver normal power supply, not connected to the KATVR-Foot Sensor	Wireless receiver normal power supply, connected to the KATVR-Foot Sensor	Not connected to the PC
KATVR-Foot Sensor	Working indicator	KATVR-Foot Sensor normal power supply, not connected to the wireless receiver; the flashing indicator indicates a low charge level and please timely charge it	KATVR-Foot Sensor normal power supply, connected to the wireless receiver; the flashing indicator indicates a low charge level and please timely charge it	The switch button is not pressed or the battery charge level is too low
	Charge Indicator	Being charged	Fully charged	Not connected to the charger
KATVR-Back Sensor	Red Indicator	KATVR-Back Sensor normal power supply, flashing indicator indicates not connected to the KATVR-Central Sensor	Connected to KATVR-Central Sensor, the flashing indicator indicates a low charge level and please timely charge it	The switch button is not pressed or the battery charge level is too low
	Green indicator	KATVR-Back Sensor is charging	KATVR-Back Sensor is full-charged	KATVR-Back Sensor is not connected with charger

Instructions for Using KAT WALK Self-Adaption Computer

If you want to use your own computer, please make sure it meets the following hardware requirements:

CPU: Intel Core i5-4590 or higher.

Memory: 8GB or higher.

Graphics card: Geforce GTX 1070 equivalent or higher.

Hard disk space: at least 200GB available on the system partition.

Screen resolution: 1920x1080 or higher.



Caution

1. Since the headset monitor needs to occupy an HDMI interface or a DP interface (need to purchase DP to Mini DP cable on your own), please adjust the computer screen / projector / TV display signal interface in advance based on your need or purchasing corresponding adapter based on your demand
2. If the machine's independent graphics card and the motherboard's integrated graphics have a display signal interface, please connect the display cable to a dedicated graphics card; integrated graphics may not be able to use or may have poor performance.
3. Using a display cable that is too long (≥ 10 meters) may cause signal degradation which leads to failing to display your content. when doing venue decoration, please note that control cable length according to the situation .

The PC running the KAT WALK must have the following software:

Operation System:

Recommended: Microsoft Windows 10 x64

Minimum: Microsoft Windows 7 Professional x64

Software and Run library requirements:

WinRAR decompression software.

Steam (Keep Updating)

SteamVR (Keep Updating)

Microsoft Visual C++ 2005 Run library(x86 & x64)

Microsoft Visual C++ 2008 Run library(x86 & x64)

Microsoft Visual C++ 2010 Run library(x86 & x64)

Microsoft Visual C++ 2012 Run library(x86 & x64)

Microsoft Visual C++ 2013 Run library(x86 & x64)

Microsoft Visual C++ 2015 Run library(x86 & x64)

Microsoft .NET Framework 3.5 sp1

Microsoft .NET Framework 4.0

Microsoft .NET Framework 4.5

Microsoft .NET Framework 4.6.2

Microsoft DirectX Run library

Note: The above software / run libraries can be obtained free of charge on the official website of each software.

WinRAR official Website: <http://www.winrar.com/>

Steam Official Website: <http://store.steampowered.com/>

Microsoft Download Center: <https://www.microsoft.com/en-us/download/>

When you have already met the hard / software requirements for running VR games and KAT platforms.

Please refer to the following process to deploy KAT entertainment platform.

Deployment process:

1: copy the sensor driver DLL file.

A) Download address: <http://systemconfigfile.gz.bcebos.com/dll.rar>

B) Copy the five DLL files in the compressed package to the C: \ Windows \ System32 path. If you need to replace the file, please replace it.

C) Note: If your anti-virus software prompts for threat blocking during installation, please add the files to your whitelist; or temporarily turn off anti-virus software before installation.

2: install KAT entertainment platform.

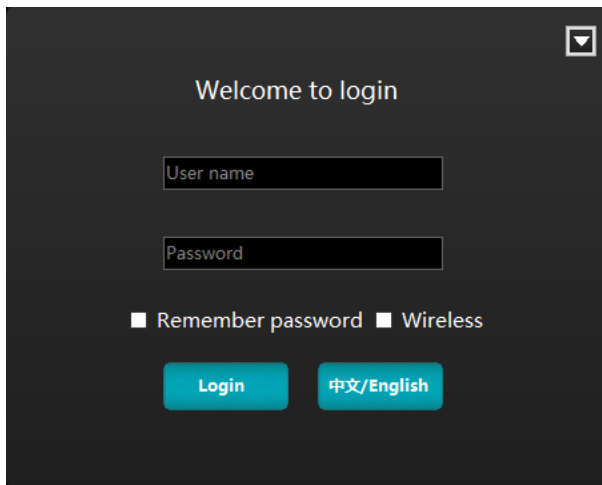
A) Download address: <http://test000.bj.bcebos.com/Flag/KATGameFlat.zip>

B) run the KATGameFlat.exe program, use the default settings for all the steps during the installation process.

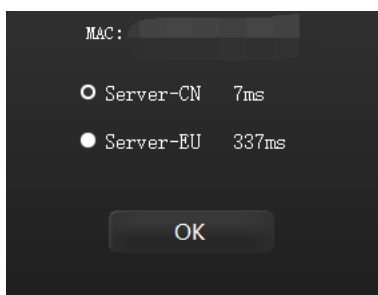
C) Note: If security software prompts for threat blocking during installation, please add the files to your whitelist; or temporarily turn off anti-virus software before installation.

3. Find the MAC address of the currently connected network device.

A) Open the KAT entertainment platform and click the icon in the upper right corner of the login window (shown below)



B) in the new pop-up window you can view the current MAC address of the device (see below)



C) record the MAC address, contact KAT after-sales staff to bind the operation (provided that you have access to the KAT entertainment platform login permissions)

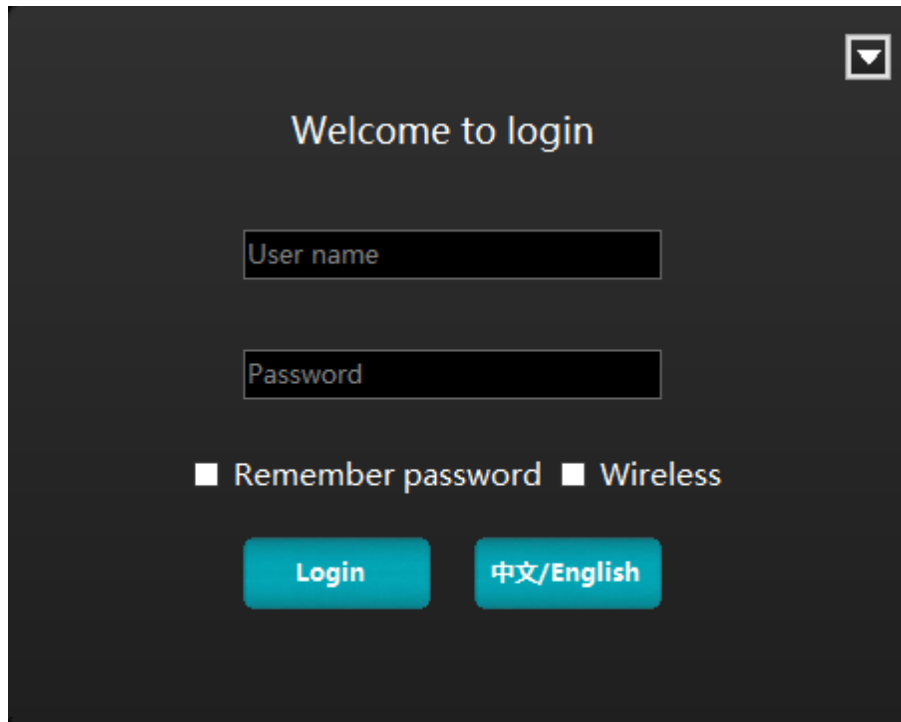


CAUTION:

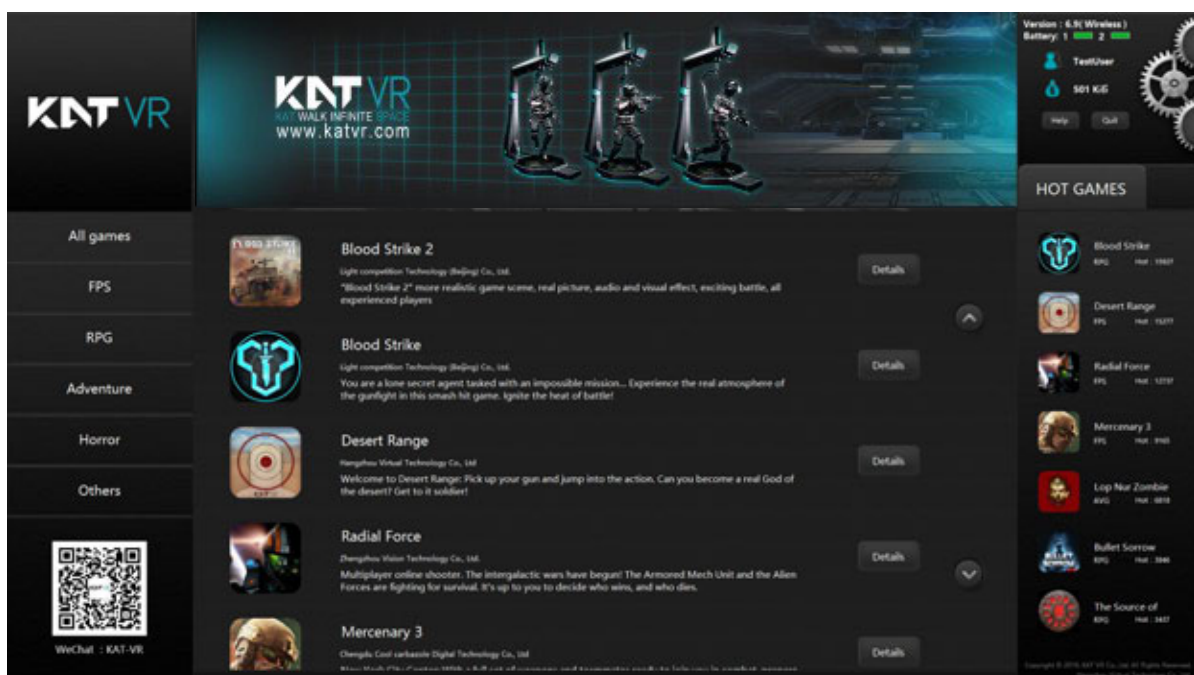
Click on the official website of the official website "KAT WALK self-adaptation" words can jump to the download page

Logging Into KAT Entertainment Platform

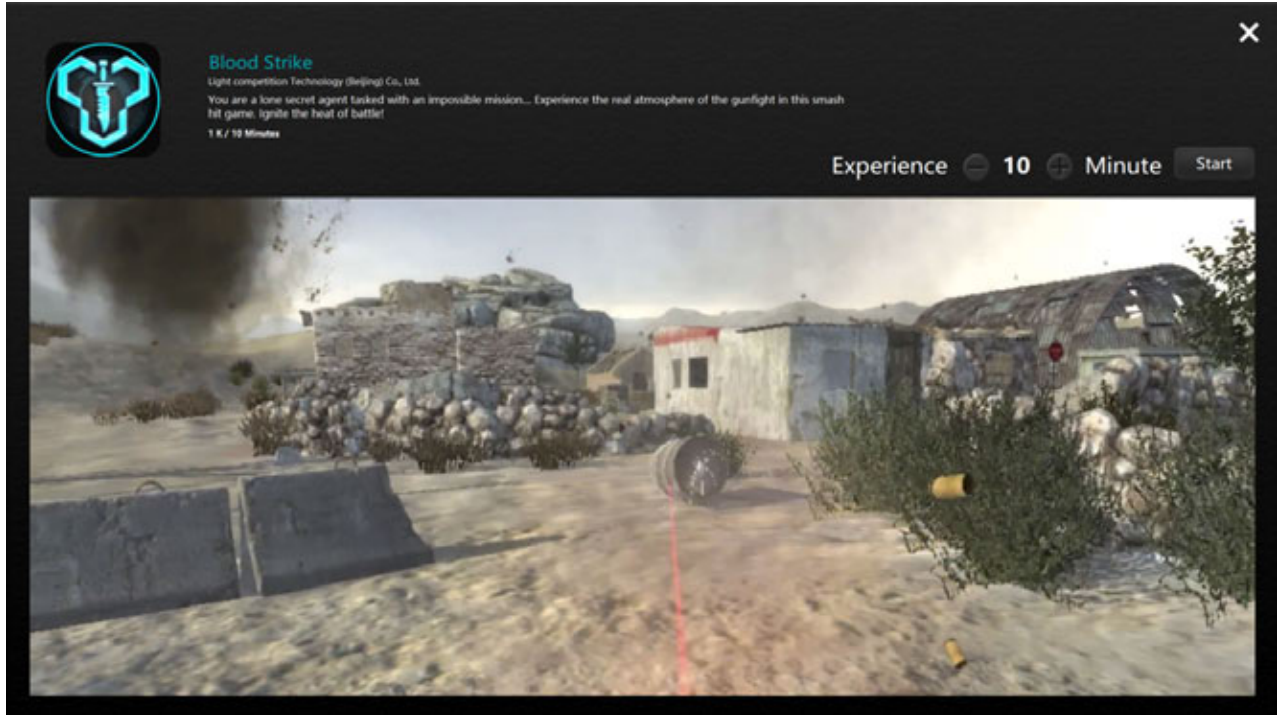
1.1. Double click the KAT entertainment platform icon and type in the username and password to log into the platform.



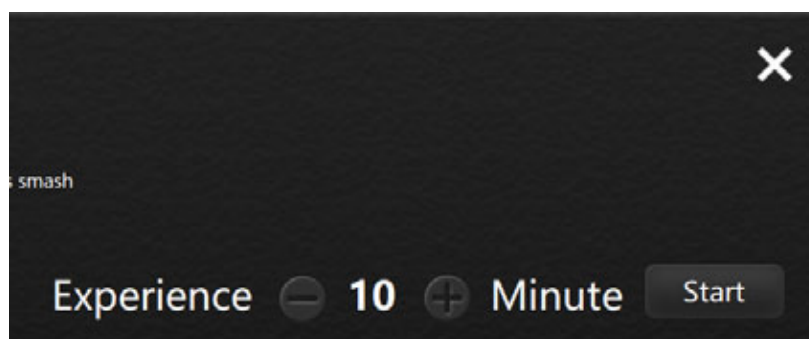
2. Enter the platform page, where the left side shows the category of games and the QR code of the Company, and the user may choose the game based on his/her preference. The middle area displays all the KAT adaptable games under the selected category, with colored icons indicating that the game has been downloaded while the black-white icons indicating the the game has not been downloaded yet. The upper right part of the interface will show the account name and the remaining K coins, and please watch out for the remaining coins. The right side of the interface shows the popularity of the games.



2. Select the game and click “Enter details” to view the introduction of the game for more details. If the game is not installed to the computer yet, please click “Install” on the right side of the interface to install the game. While downloading and installing games is free of charge, a certain number of K coins will be consumed when playing the game. If the game is already installed, the right side of the interface will display the button for setting up the game time and the button for starting the game.



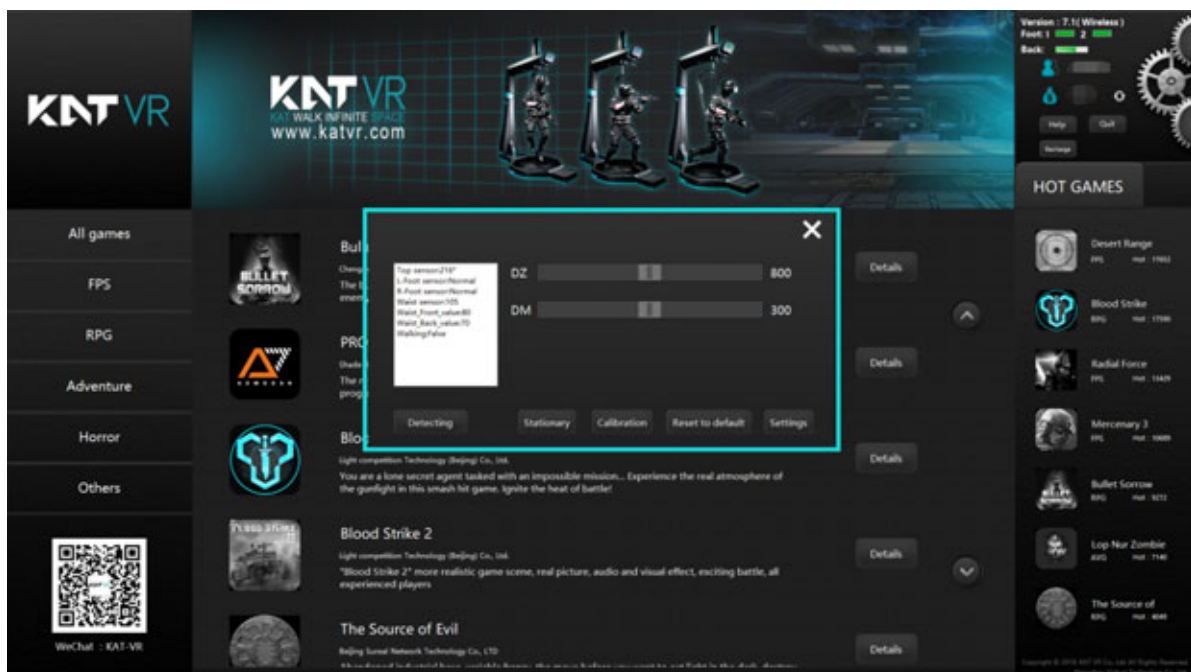
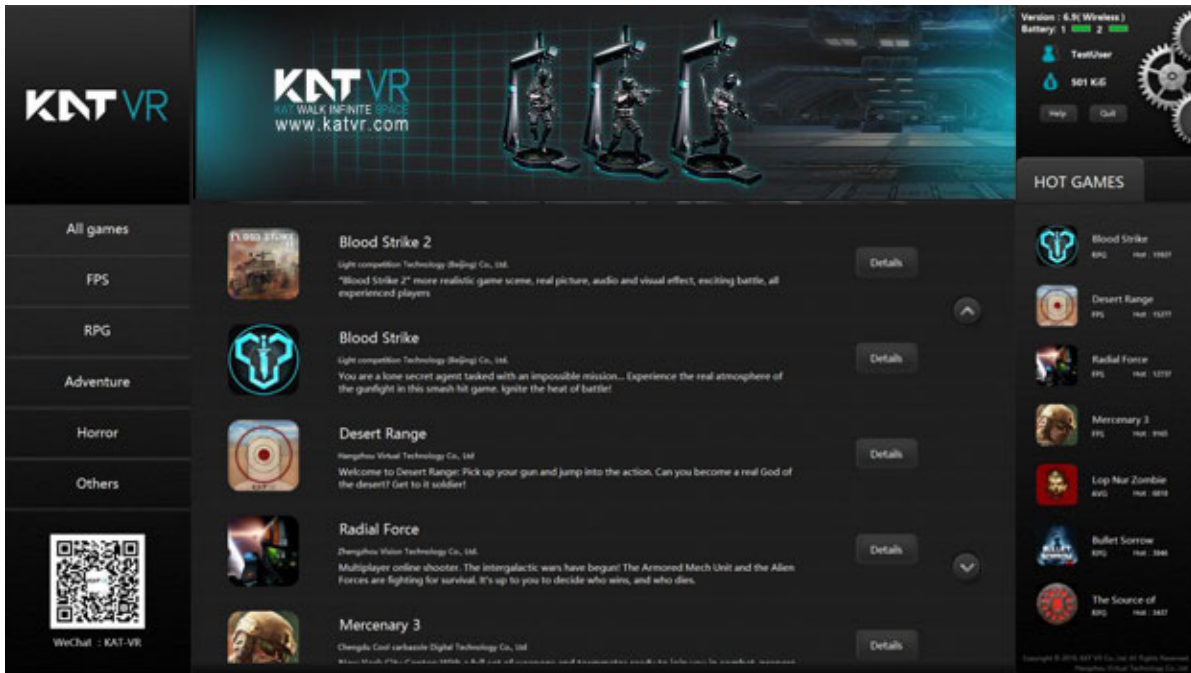
6. Start the game. After selecting the game, enter the game and the right side of the interface will show the button for setting up the game time, which can be done by clicking “+” or “-”. Click “Start” to start the game and the upper left corner of the interface will display the remaining game time, while the upper right corner displays “Minimize”, “Restore” and “Off”.



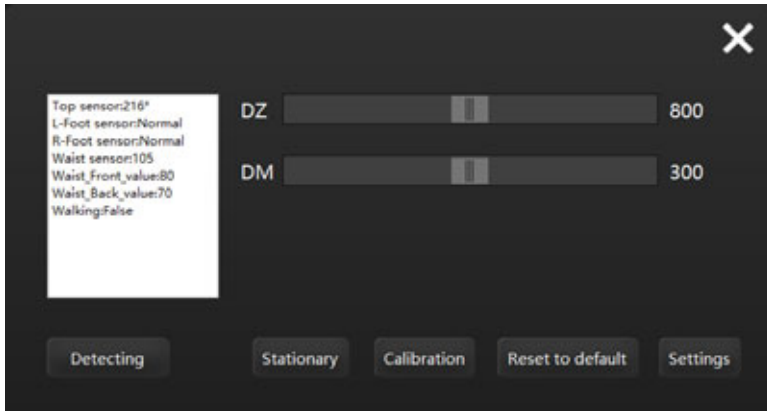
Game Settings

How to Enter the Game Settings Page

On the right side of the main interface, the gears area is the button to access game settings. The administrator may set up the game by entering the page of game settings. KAT will preset the parameters for the game software and please do not change them randomly. If there is any problem, please contact the KAT service center for advice. Open the game platform software and click the gear on the right to enter the page for the settings.



Click the “Error detection” at the lower left corner of the page, and the button will change to “Detecting”, and the sensor data will appear in the text box.



Introduction of parameters and settings in the page of game settings

KATVR-Top Sensor: displays the KATVR-Top Sensor data

Left KATVR-Foot Sensor: shows if the left KATVR-Foot Sensor is operating normally

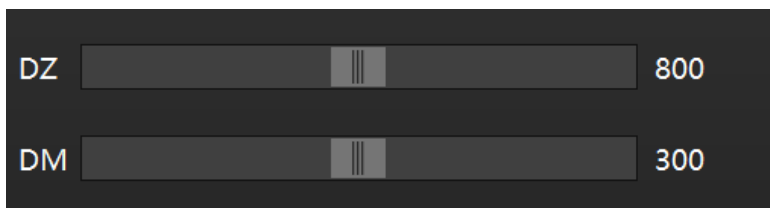
Right KATVR-Foot Sensor: shows if the right KATVR-Foot Sensor is operating normally

KATVR-Waist Sensor: displays the KATVR-Magnetic data

KATVR-Waist Sensor forward tilt threshold: shows the front inclination threshold value of the KATVR-Magnetic

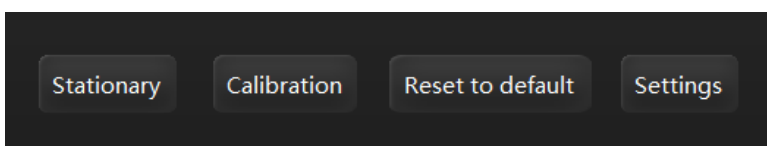
KATVR-Waist Sensor backward tilt threshold: shows the rear inclination threshold value of the KATVR-Magnetic

Walking or not: shows whether the player is walking or not



DZ: threshold of the two KATVR-Foot Sensor

DM: threshold value of one KATVR-Foot Sensor



Static: When the player finishes wearing the equipment and stands upright on the KAT WALK, the staff member will click “Static” and it will show a successful setting of the static status, which will be defined as the static value. Then the threshold values for the front inclination and the rear inclination of the KATVR-Magnetic will change accordingly.

Calibration: After installing the base station and the KAT WALK, click “Calibration” when turning them on for the first time to confirm the orientations for the walking and the head-mounted display. Click “Calibration” again when moving the base station or the KAT WALK.

Restore default: The software will preset the DZ and DM values. If you would like to restore to the factory settings after changing the two values, you may click “Restore default” and they will be restored to the factory settings.

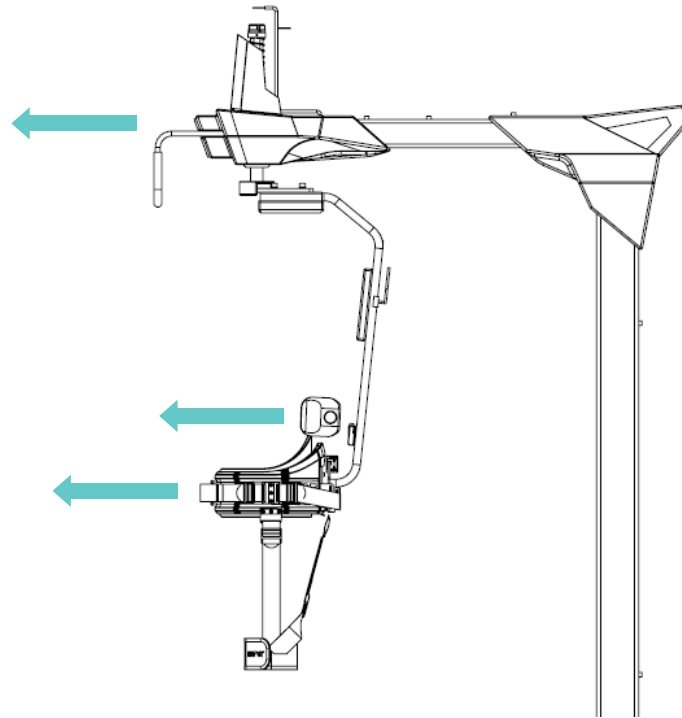
Settings: After changing the DZ value and the DM value, click “Settings” so that the changes take effect.

Caution

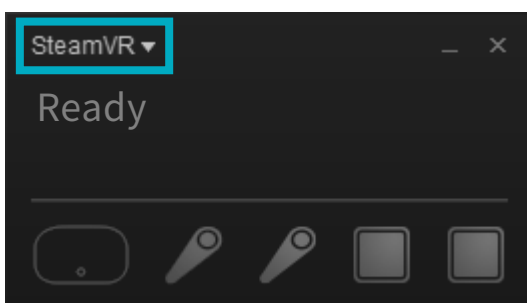
Please do not randomly change the DZ value and the DM value as they are preset before the delivery.

Calibration Settings

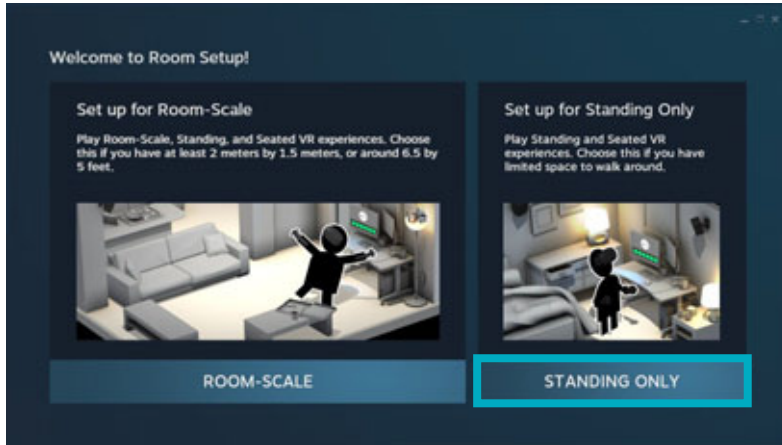
1. Place the HTC VIVE head-mounted display (Not included with this version, it needs to be purchased separately) above the girdle set, and make sure the orientations of the display front, the girdle opening and the KAT WALK are consistent.



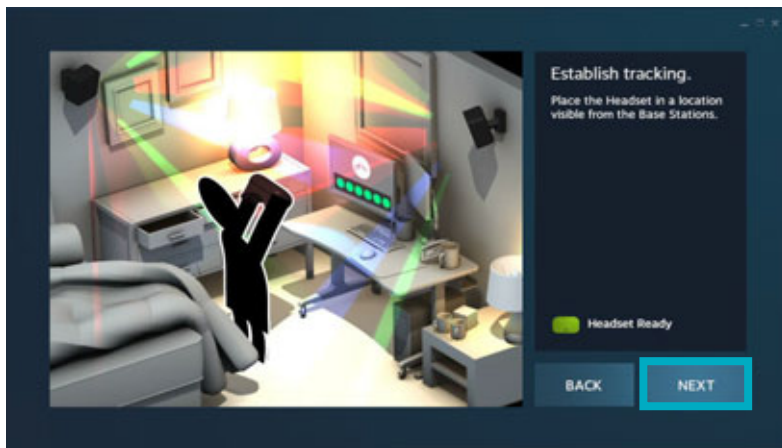
2. Open the settings page and click “Calibration” at the bottom.
3. Afterwards click “Calibration”, the KATVR-Top Sensor value will turn into 0.
4. After finishing the calibration, immediately start setting up the room mode without moving the head-mounted display, the girdle or the KAT WALK.
5. Click the SteamVR at the upper left corner of the testing software Steam and it will display the menu page. Click the “Settings for running the room” on the top.



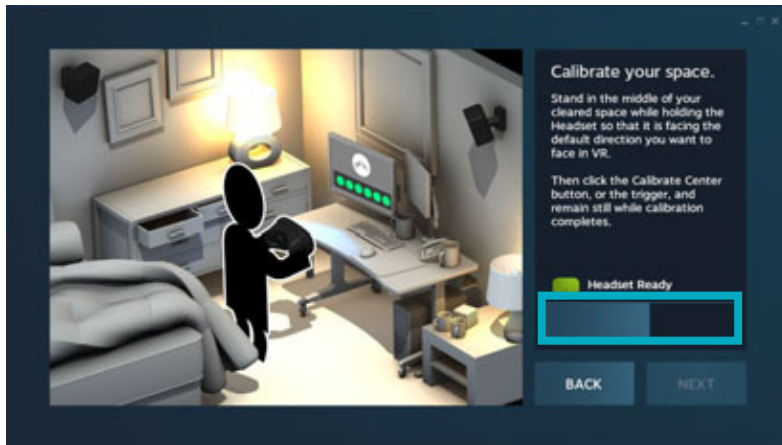
6. Choose the “Stand only” mode.



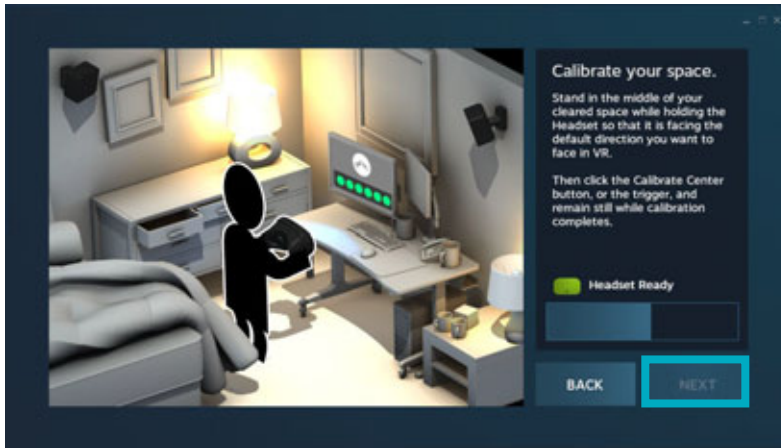
7. Click “Next”.



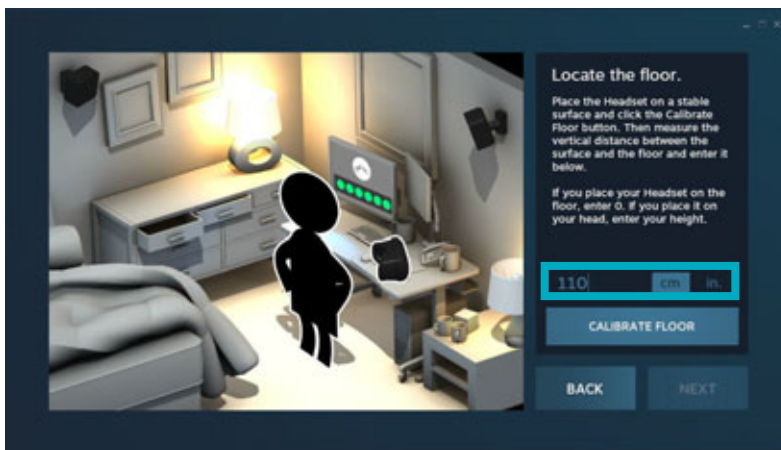
8. Click the “Calibrate central point”.



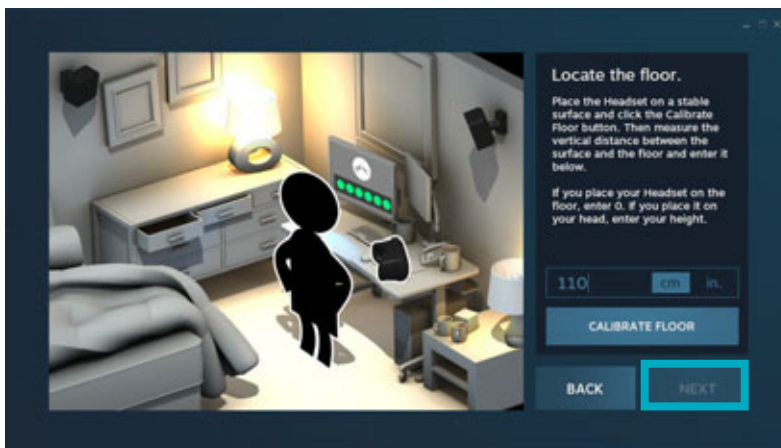
9. Click “Next” after finishing the calibration.



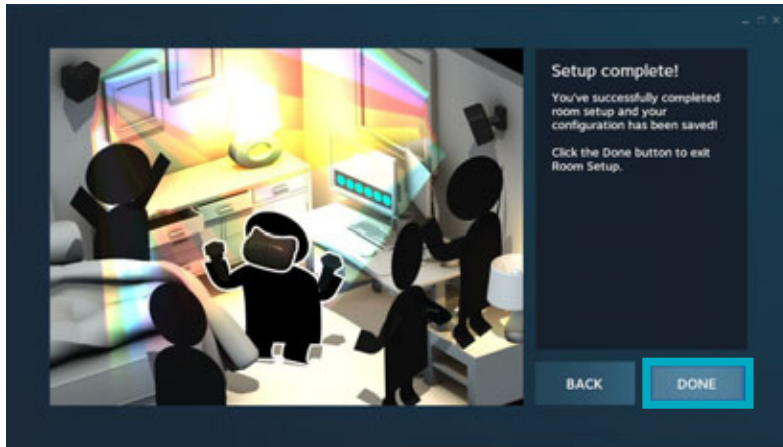
10. Key in the distance between the head-mounted display and the floor: 110cm, and click it to calibrate the floor.



11. Click “Next” after finishing the calibration.



12. The room settings are finished, click “Finish”.

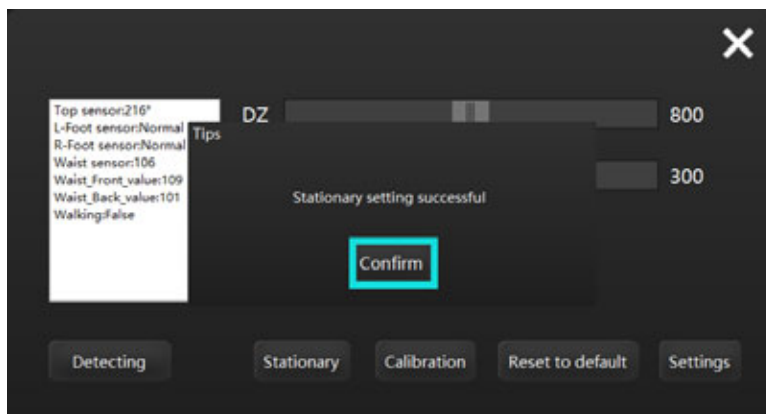
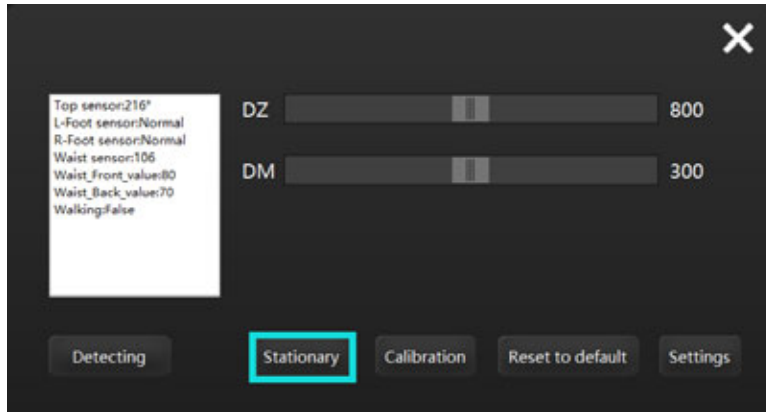


Caution

1. Make sure the orientations of the head-mounted display front, the girdle set and the KAT WALK are consistent during the calibration.
2. Do not randomly move the KAT WALK or the base station after the settings.
Please re-do the set-up if you move the KAT WALK or the base station.

Static Value Settings

1. The static value needs to be set up upon the successful calibration.
2. A player of 150-180cm tall and weighing no more than 100KG is required to put on the girdle set and stand upright on the WALK. Click the icon of “Static” and it will show a successful setting of the static status, which will be defined as the static value. Then the threshold values for the front inclination and the rear inclination of the KATVR-Magnetic will change accordingly. Click “Settings” and exit the page.”



Caution

The static value must be set up before each player plays the game since different people have different figures and walking styles.

Quitting the Game

1. Turning off during

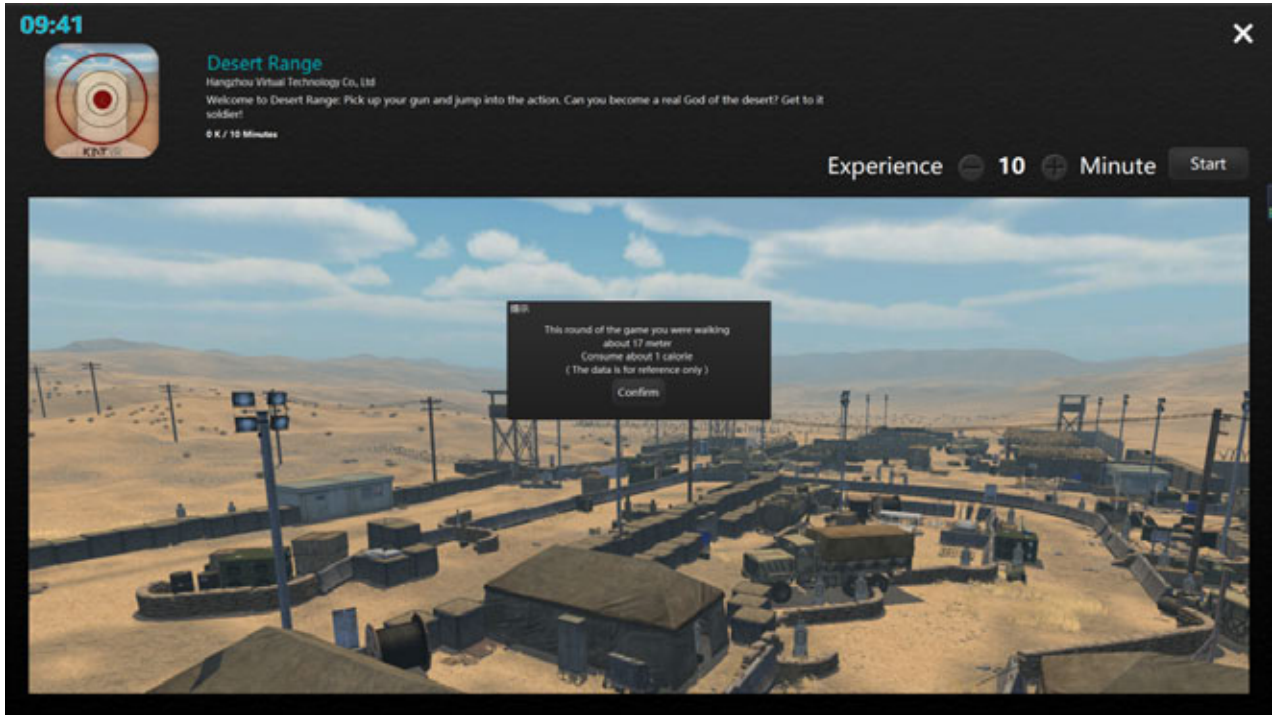
Click the “Close” button at the upper right corner of the page to turn off the game.



Click “Quit” at the upper right corner of the page and it will prompt a box requesting you to confirm whether to quit the game. Click “Confirm” to quit the game and “Cancel” to continue the game.

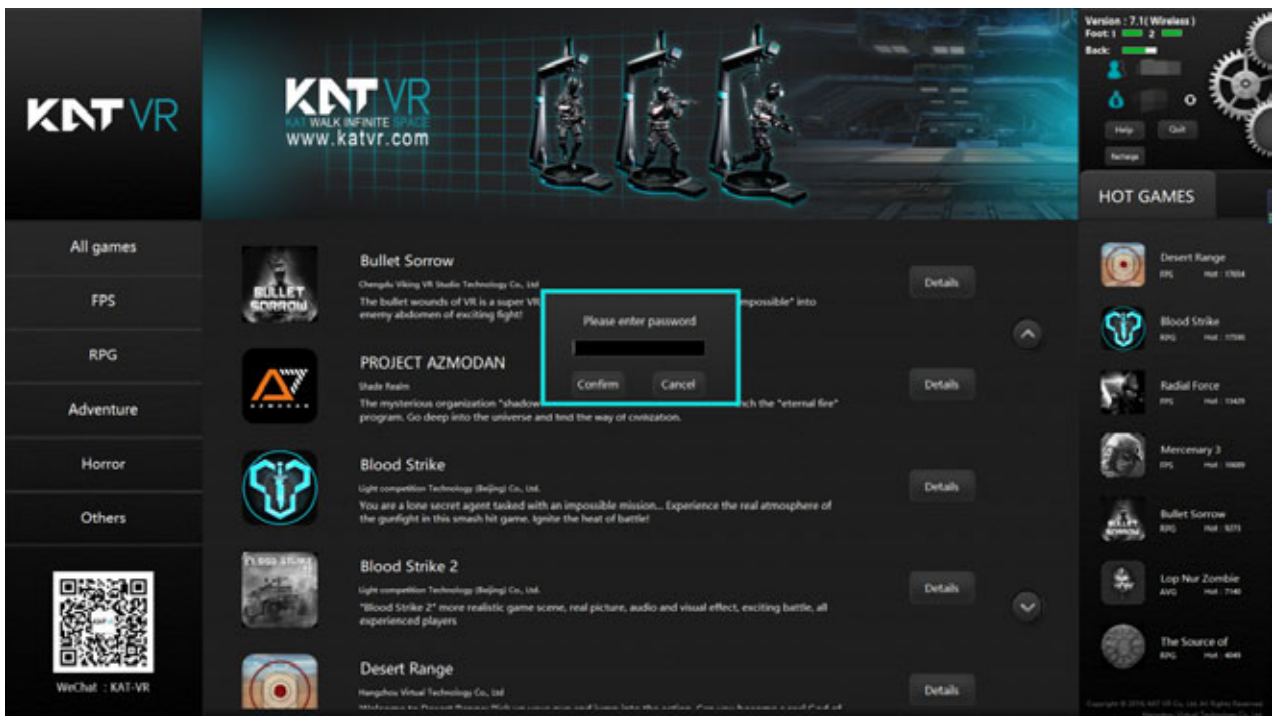
2. Game over

When the game is over, the page will pop up a window indicating that the time is up. Click “Confirm” to end the game and “Play again” to restart the game, and an equivalent amount of K coins will be deducted.



Turning Off the Software

Click “Close” at the upper right corner of the page and it will prompt a box requesting the input of the password. Key in the password and click “Confirm” to turn off the software.

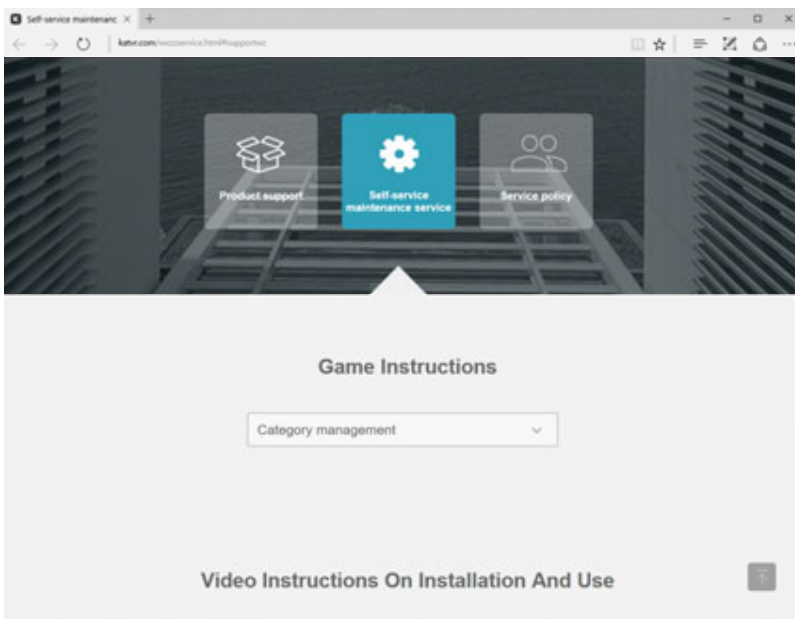


Help Center

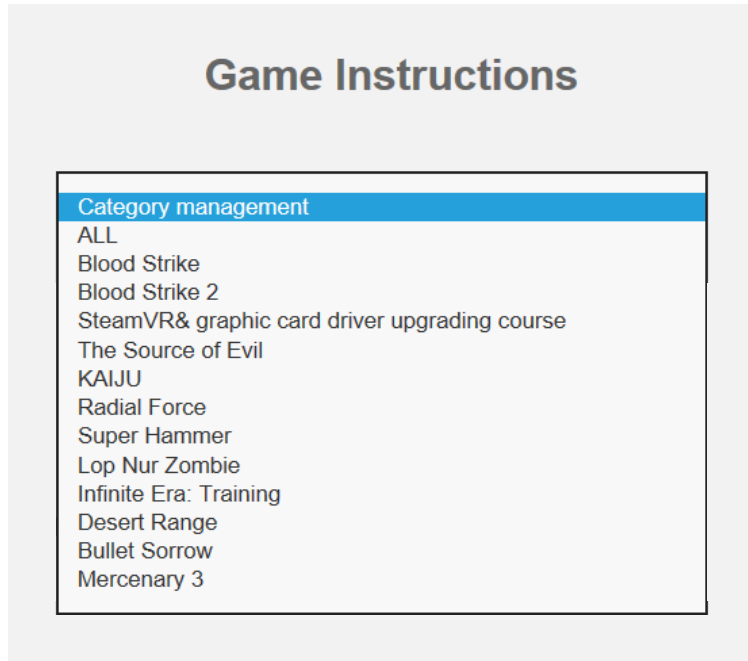
The Help button is located on the upper right part of the page. Click it to enter the self-help repair service page under the technical support on the KAT official website.



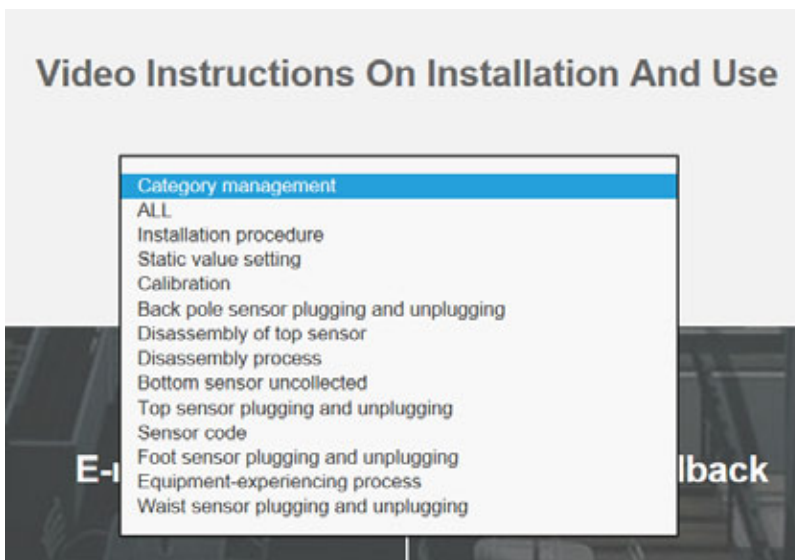
You may view the introduction of the game and the videos and texts for common operations in this page.



Click the drop-down box for the “Introduction of the game” and you will see the list for all the games on the platform. Choose a game and you will be able to view the basic introduction and the instructions of the game.



Click the drop-down box for the “Videos of Installation and Use” and you will see the videos and texts for the installation and daily use. Select an operation and you will be able to view the corresponding video and text.



Correct Wearing

Putting On the Equipment

1. The player sits on a chair, puts on the KAT SHOES (KAT SHOES COVER) by himself and steps on the pedals;
2. The players holds the safety railings, carefully walks into the base plate of the treadmill and turns around with the back facing the treadmill. The staff member needs to ensure the player' s safety when he walks in;
3. The staff member helps to tighten the girdle set and leg set.
4. Press the switch button on the side of the KATVR-Foot Sensor, and wait until the KATVR-Foot Sensor red indicator is off and the blue indicator is on.



Caution

1. KAT SHOES are designed with a special structure where there are wheels on the rear end of the soles. Thus, the staff member needs to be aside after the player puts them on to prevent him from falling over.
 2. Make sure the girdle set and leg set are tightened for the safety of the player.
 3. For the best experience during the first time, it is suggested that the player has a trial walk of 1-2 minutes before the experience.
 4. Turn off the switch by pressing the switch button on the side of the KATVR-Foot Sensor when not using them to reduce power consumption.
-

Taking Off the Equipment

1. The player takes off the head-mounted display;
2. The staff member dismantles the KATVR-Foot Sensor;
3. The staff member helps to untie the girdle set;
4. The player walks out of the KAT WALK with the staff member' s help;
5. The player sits on a chair and takes off the KAT SHOES (KAT SHOES COVER) by himself.



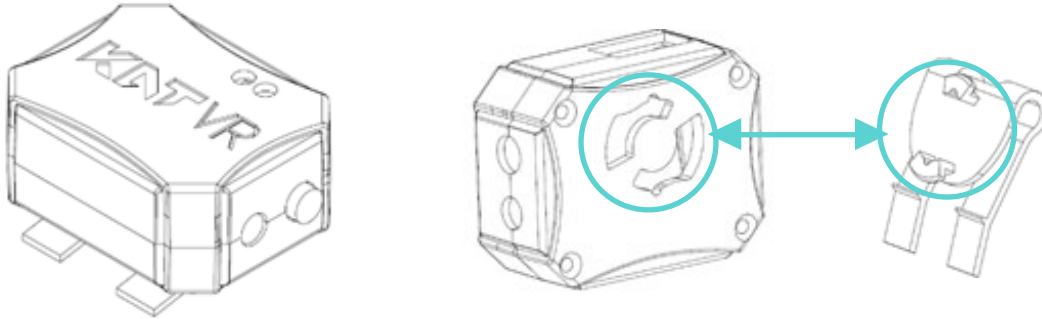
Caution

1. Please strictly follow the above mentioned steps to prevent any damage to the sensors;
 2. Make sure the girdle set and leg set is tighten for the safety of player!
-

Installation and Dismantling of KAT SHOES COVER Sensors

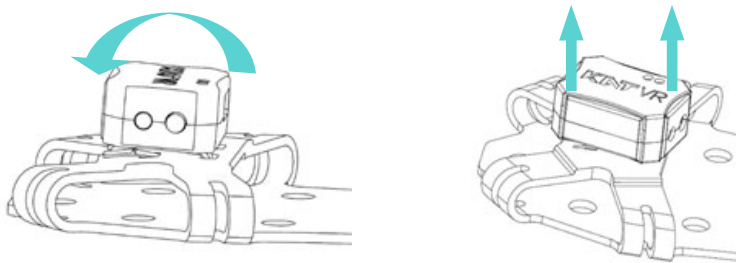
Fast Replacement of KATVR-Foot Sensor

A fast replacement module has been designed in the structure of the IMU sensor for an easier replacement of IMU sensor on the shoes cover. The replacement can be done in fast way through the turning of the IMU main body and the buckle.



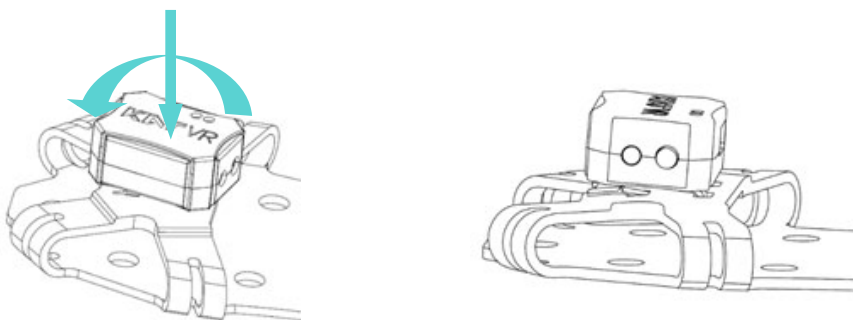
Dismantling of the Main Body of KATVR-Foot Sensor:

Turn the main body of the IMU counter clockwise to pull out the main body of the KATVR-Foot Sensor.



Installation of the Main Body of KATVR-Foot Sensor:

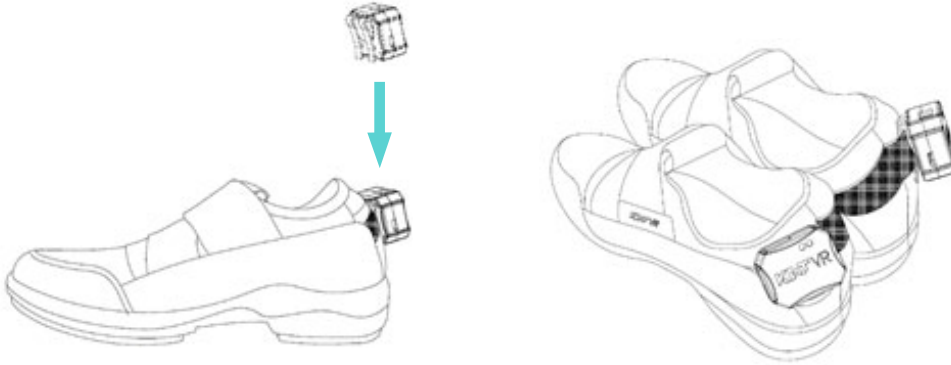
As shown in the figure, fit the slot of the main body into that of the buckle and rotate it clockwise to the position shown in the figure. When you hear a click sound, it means the installation has been successfully done.



Installation and Dismantling of KAT SHOES Sensors

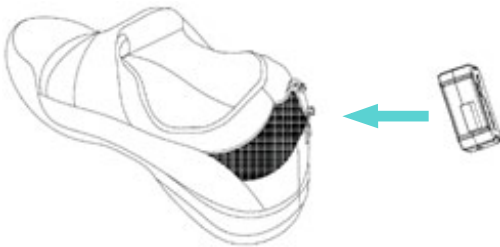
Installation of KATVR-Foot Sensor:

Insert the buckle of the KATVR-Foot Sensor into the external elastic belt of the Shoes and make sure the two sides of the buckle are inserted into the belt respectively, as shown in the figure:

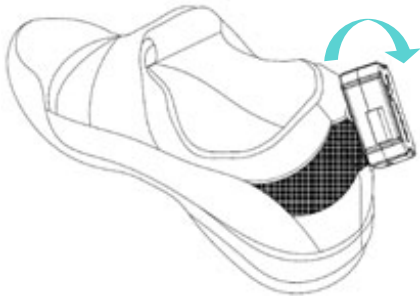


Installation of the Main Body of KATVR-Foot Sensor:

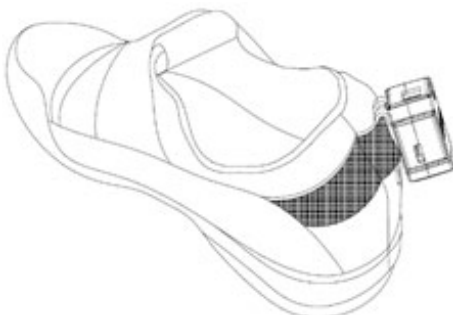
1. Fix the main body of the KATVR-Foot Sensor to the buckle, as shown in the figure:



2. Turn the main body of the KATVR-Foot Sensor clockwise and if you hear a click sound, it means the installation has been successfully done.

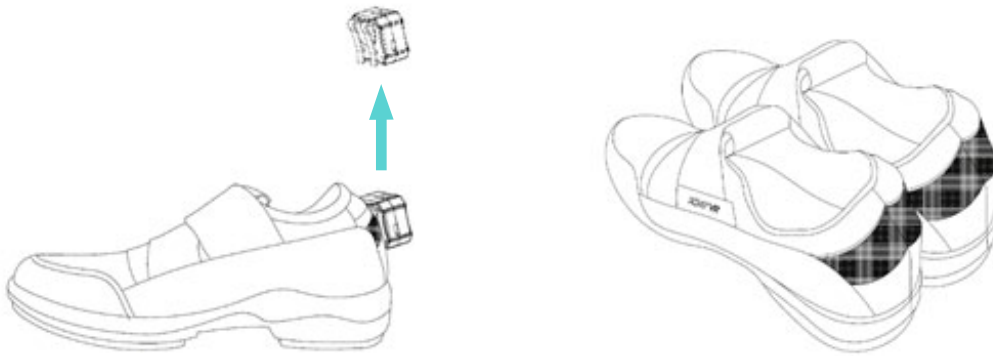


3. Finish the installation of the KATVR-Foot Sensor.



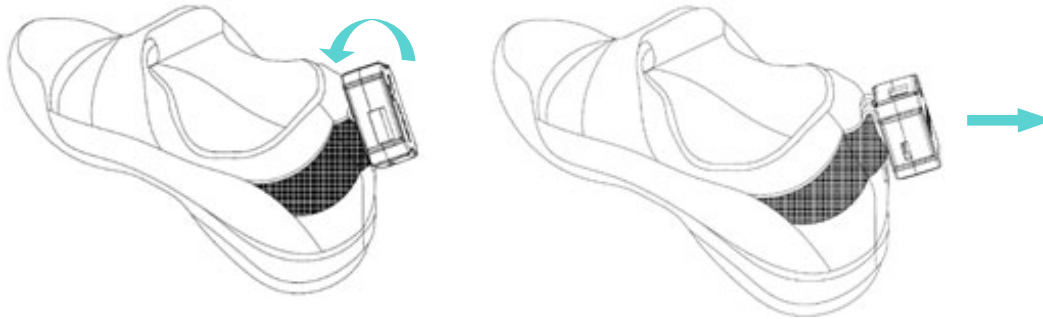
Installing the KATVR-Foot Sensor:

Insert the buckle of the KATVR-Foot Sensor into the external elastic belt of the Shoes and make sure the two sides of the buckle are inserted into the belt respectively, as shown in the figure:



Dismantling the Main Body of KATVR-Foot Sensor:

Turn the KATVR-Foot Sensor counter-clockwise and pull it out.



Dismantling and Replacement of KAT WALK VR Omni-directional Treadmill



Safety Reminder

For safety purpose, please make sure all the power sources are off before the dismantling.

Dismantling the Shell

1. Unscrew all the bolts on the metal plate at the bottom of the support pillar to separate the plate.
2. Unscrew all the bolts on the metal plate at the girder tail to separate the plate.

Dismantling of Mechanical and Electrical Structure

1. Plug out all the DC cables connected to the power socket.
2. Turn the base plate holder and move the KAT WALK to a flat and open field.
3. Unscrew the bolt on the installation panel of the connecting rod to dismantle the rod.
4. Dismantle the metal plate shells of the KAT WALK one by one.
5. Turn the fixing bolt at the bottom of the support pillar, with one person holding the pillar at its back to prevent it from toppling suddenly.
6. Put the support pillar down backwards so that it lies flat on the floor. Place a foam pad of at least 20cm thickness down the pillar in advance.
7. Pull out the three-in-one data cable of the head-mounted display on the telescopic stick from the girder, extract the data cable part in the telescopic stick, and take the three-in-one data cable out of the head-mounted display.
8. Unscrew the fixing bolt on the flange between the support pillar and the girder and turn the girder so that it is parallel to the floor.
9. Turn the flange between the support pillar and the girder to separate them.
10. Unscrew the bolt between the support pillar and the base plate and turn the hinges to separate the pillar and the plate.

Instructions for Replacing KAT SHOES

It is advised to replace the wheel at the rear part of the KAT SHOES if it is loose or cannot roll properly.

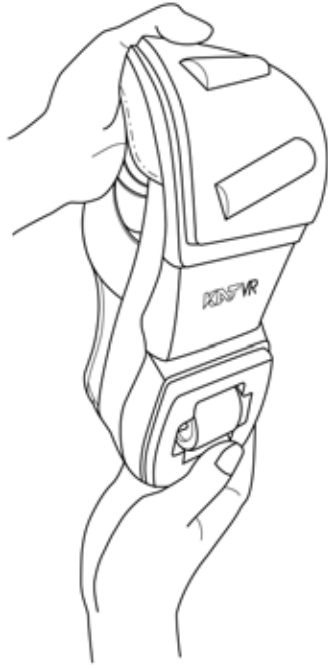
It is advised to replace the sliders on the sole of the KAT SHOES if they are severely abraded. As the slider in the front is more prone to abrasion than the other one, they may be swapped before the replacement.

It is suggested to replace the KAT SHOES if the surface is abraded.

Steps for Replacing Sliders

The sliders and the wheels are designed with a snap-fit slot, during the replacement,

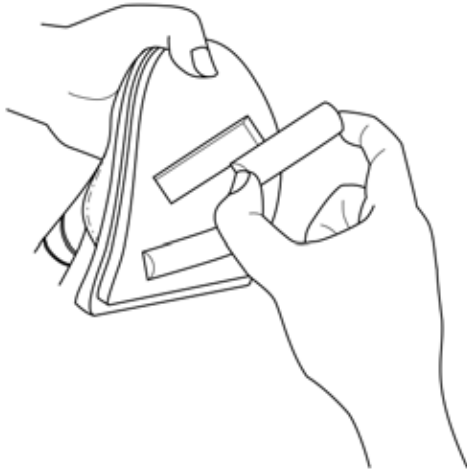
1. Hold the two ends of the KAT SHOES and squeeze it inwards with the sole bulging out.



2. As the slot of the slider expands, the old slider can be removed very easily.



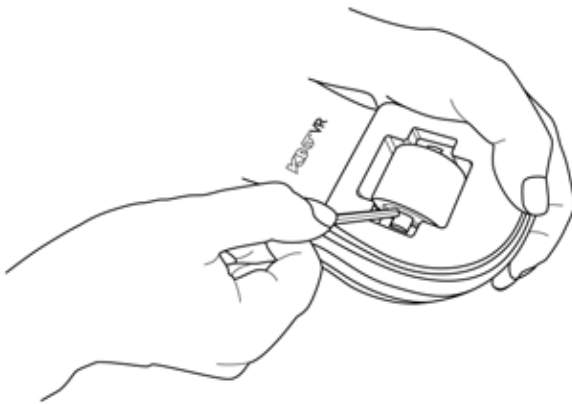
3. Take off the old one and insert the new one in the same way.



4. Release the KAT SHOES, and the slot will return to the normal size. The new slider will automatically fit into the slot and the replacement is finished.

Steps for Replacing Wheels

1. Turn the sole of the KAT SHOES upwards.
2. Pry up the wheel with the accessory wheel replacement tool.
3. Take out the old wheel, insert the new one, and the replacement is finished.

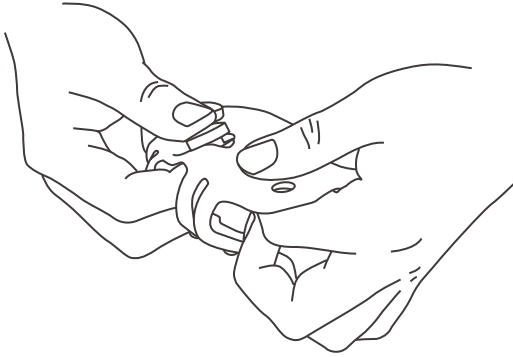


Instructions for Replacing KAT SHOES COVER

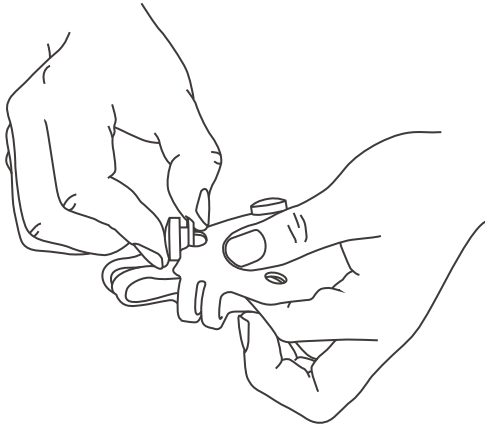
It is advised to replace the slide block at the sole of the KAT SHOES COVER when it is loose or cannot roll properly.

Steps of Replacing Slide Blocks

1. One hand holds the Cover, while the other pinches the slide block. Then bend the block outwards with strength.



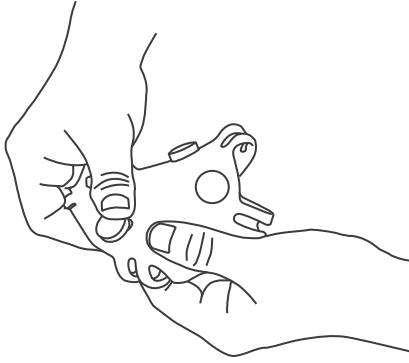
2. Take the damaged block off the Cover.



3. Take out the new block.



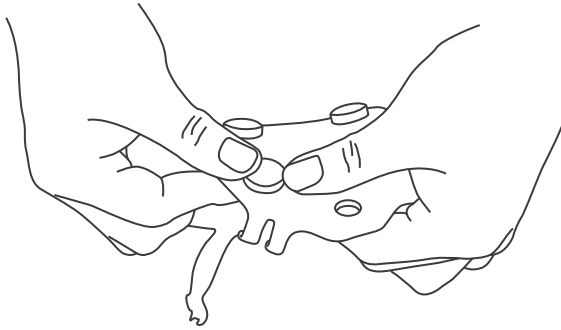
4. One hand holds the Cover, while the other press the block into the block slot.



Caution

Make sure the orientations of the block upper and lower surface are consistent with those of other blocks when pressing it.

5. Complete the block replacement.



Unable to Walk or Walk Slowly in the Game

Cause: The DLL files are not installed

Solution: Contact the KAT service center to obtain the DLL files and put them under the system32 directory in the C drive.

Cause: Incorrect connection of KATVR-Foot Sensor

Solution: If the working indicator on the KATVR-Foot Sensor is red, check if its six-digit dialer value is consistent with that of the wireless receiver. If not, please re-dial the dialer.

Cause: Inconsistent dialing values of the two KATVR-Foot Sensor

Solution: Turn off the two KATVR-Foot Sensors, and make the values of the two KATVR-Foot Sensors consistent with that of the wireless receiver.

Cause: KATVR-Foot Sensor error

Solution: If the re-dial does not work, then there is an error with the KATVR-Foot Sensor which may need to be replaced with a new one.

Cause: The static value is not set; improper operations in the settings of the static value

Solution: Re-set the static value by following the steps on page 37 of the User Manual. Make sure the player stands upright on the KAT WALK when setting up the static value. If the player is thin, ask him to slightly lean back.

Cause: The player did not stand upright on the KAT WALK as instructed in the settings of the static value

Solution: Re-set the static value by following the steps on page 37 of the User Manual. Make sure the player stands upright on the KAT WALK when setting up the static value. If the player is skinny, ask him to slightly lean back.

Cause: Inconsistent values of the KATVR-Central and the KATVR-Back Sensor or multiple equipment with the same dialing value in the same place

Solution: Check if the dialing value of the KATVR-Central is consistent with that of the KATVR-Back Sensor. Make them consistent if not and note the position of the ON on the dialer when dialing it.

(If there is more than one KAT WALK within the same room, check if their values are the same. If so, please dial the dialers to make the values different.)

Inconsistent Walking Orientation Between Figures in the Game and in the Reality

Cause: The calibration is not done

Solution: Complete the calibration by following the steps on page 33 of the User Manual.

Cause: The base station or the equipment is moved

Solution: Redo the calibration by following the steps on page 33 of the User Manual.

Cause: Improper calibration, failure to follow the instructions in the User Manual

Solution: Redo the calibration by following the steps on page 35 of the User Manual.

Cause: The grounding cable is not installed

Solution: Install the grounding cable by following the steps on page 16 of the User Manual

Cause: The positive direction is not reset

Solution: The app button on the handle is the button for resetting the positive direction in the game. During the game, the player holds the handles in both hands facing the positive direction, and resets the positive direction of the game by pressing the app button.

It prompts “The MAC address has been changed. Please contact the administrator to rebind with the mac address” when you enter the page with the details of the game

Cause: The MAC address has been changed

Solution: Write down the new mac address and the account and contact the KAT service center to rebind your account with the new address.

No sound from the speaker in the control center

Cause: The speaker in the control center is overloaded.

Solution: Control the volume within around 70% when playing sounds through the speaker.

It prompts “System error. Please contact the administrator”

Cause: Local network error

Solution: Check the local network connection. Restart the router before restarting the control center.

Unable to Download the Game

Cause: Network connection error

Solution: Check if the network connection is normal

Cause: Insufficient storage of the C drive

Solution: Check the remaining space of the C drive. If it is small, clean up the drive.

Cause: Error in the game download

Solution: Enter the windows—downloadgame file to find the corresponding game file. Manually delete the file, download and install the game once again on the KAT entertainment platform. Do not exit the software or switch to other pages during the download.

No Signal on the Control Center Screen

Cause: The graphics card is not properly connected

Solution: Check if the DVI cable connection is normal between the case and behind the screen cover. If it is normal, cut off the power supply to the control center, find the graphics card in the case, unplug it, re-install it and make sure it is properly installed. Resupply the power to the control center to start it.

The Power Indicator of the KATVR-Central Is Not On

Cause: No power supply to the KATVR-Central

Solution: Check if the USB cable is loose. Plug the cable out and in, replace the USB port on the control center and resupply the power to the KATVR-Central.

Cause: KATVR-Central error

Solution: Replace the KATVR-Central with a new one

The Blue Indicator of the KATVR-Central Is Not On

Cause: The KATVR-Back Sensor is not power on

Solution: Check if the KATVR-Back Sensor is power on. Plug the cable out of and into the power socket of the KATVR-Back Sensor . Observe if the blue indicator turns on.

Cause: Inconsistent values of the KATVR-Central and of the KATVR-Back Sensor or multiple equipment with the same dialing value in the same place

Solution: Check if the dialing value of the KATVR-Central is consistent with that of the KATVR-Back Sensor . If not, make them consistent and note the position of the ON on the dialer when dialing it.

(If there is more than one KAT WALK within the same room, check if their values are the same. If so, please dial the dialers to make the values different.)

Cause: KATVR-Central or KATVR-Back Sensor error

Solution: Replace the KATVR-Central or KATVR-Back Sensor .

The Red Indicator of the KATVR-Back Sensor Is Not On

Cause: The KATVR-Back Sensor is not power on

Solution: Check if the head-mounted display is powered on. Plug the power supply cable of the KATVR-Back Sensor out and in. If the power is supplied by a portable power bank, check if the charge level is too low.

The Blue Indicator of the KATVR-Back Sensor Is Not On

Cause: Inconsistent values of the KATVR-Central and of the KATVR-Back Sensor or multiple equipment with the same dialing value in the same place

Solution: Check if the dialing value of the KATVR-Central is consistent with that of the KATVR-Back Sensor . If not, make them consistent and note the position of the ON on the dialer when dialing it.

(If there is more than one KAT WALK within the same room, check if their values are the same. If so, please dial the dialers to make the values different.)

The Game Character Cannot Turn Around Properly

Cause: KATVR-Top Sensor error

Solution: 1. .Check if the connection end of the KATVR-Top sensor connector is in good contact.Cut off the power supply to the KATVR-Central sensor and plug out and in the KATVR-Back sensor connecting cable on the KATVR-Central Sensor;
2. Replace the KATVR-Top Sensor.

Cause: The grounding cable is not installed and the sensors are affected by the static electricity

Solution: Install the grounding cable by following the steps on page 16 of the Manual User.

FCC Warnings

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different

from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

FCC RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Manufacturer: Hangzhou Virtual And Reality Technology Co., LTD.

Address: Room 1405, Building 2, Haichuang Technology Centre,
Cangqian Street, Yuhang District, Hangzhou, Zhejiang Province

IC Warnings

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

EU Regulatory Conformance

Hereby, we, Hangzhou Virtual And Reality Technology Co., LTD. declare that this equipment KATVR-KAT WALK is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The declaration of conformity may be consulted at www.katvr.com