

IQBoard UI

User Manual



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Web: www.recoverystar.com; www.iqboard.net

Tel: +86-591-83385086, 87274373

Fax: +86-591-87274383

E-mail: master@recoverystar.com

Important Statements

This manual is for IQBoard UI.

Use this product strictly according to detailed operation instruction in this manual so as to ensure proper use. Before you install this product, please read this manual carefully to save your time.

Opening the package means you have agreed to purchase this product, Returnstar will not accept returns of opened packages.

The product specification may be subject to change without prior notice. The sample pictures in this User Manual may differ from the real product.

Returnstar reserves all rights to charge the fee at anytime for product replacement, revision and update. The content in this manual will be regularly revised without prior notice, and the printed manual will be updated when new version is released. Returnstar will make no guarantee for this product, both explicit and implicit, including the salability and the adaptability to certain purpose, and will deny all guarantees alike.

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Environment Protection

When discarding this electronic device, please don't treat it as normal trash. To minimize the pollution and protect the environment, please recycle it.

Working Temperature and Humidity

Storage: Temperature: -40 degrees to 60 degrees; Humidity: 0% to 95%

Operation: Temperature: 0 degrees to 40 degrees; Humidity: 15% to 85%

Chapter 1 Product Introduction

Portable interactive writing board

Connect IQBoard UI with your computer and projector, then simply touch the projection area with the signal pen, you can transform the signal pen to mouse and directly operate the computer on the projection area. IQBoard UI supports projection areas from 40 to 80 inch.

Powerful software, easy to operate

IQBoard Software makes your operation on interactive whiteboard more convenient. Its powerful functions include writing, erasing, text editing, hand-writing recognition, on-screen keyboard, line, graph and table editing, graph recognition, video and sound playing, dimension and angle label, digital teaching tools, slide playing, operation review, dragging, revolving, hyperlink, reveal screen, spotlight, screen capture, screen record and replay, hand-writing saving in MS Office, page and file editing, printing and saving, etc. Provide upgrade service.

Comprehensive resource library covering various subjects

Provide 500M vectorgraph library covering more than 30 subjects including math, physics, chemistry, biology, gymnasium, etc. User can customize the installation by selecting subjects. Also provide common line, shape, character, symbol, decoration graph, background template, Flash courseware, and other resources. Support importing various picture files and DOC, PPT, XLS files. The page and file created by IQBoard Software can be save as and freely converted to various picture files as well as DOC, PPT, XLS, PDF, HTML files, etc. Provide upgrade service.

Efficient demonstrating and teaching system

With IQBoard UI, marvelous interactive communicating effect can be achieved in various demonstrating and teaching situation, such as product exhibition, business conference, video communication, news broadcast, securities evaluation, military command, entertainment, medical consultation, engineering design, competition tactics analysis, weather analysis, etc. IQBoard UI is specially designed for normal classroom and converting normal whiteboard or RP TV to interactive whiteboard.

Chapter 2 Specification

Performance

Effective resolution: 9600×9600, 300dpi

Signal tracking rate: 3m/s

Processing rate for writing or clicking: 240 dot/s

Provide 9 or 20 points precise orientation

Support projection area from 40-80 inch

PC Connection

Provide 2M or 10M USB cable for connecting IQBoard with PC. External power is not required. Provide optional USB signal amplifier for 20M USB cable. Provide optional 2.4G radio frequency wireless module (Effective range: 10M).

System requirement

Windows XP/2003/Vista operation system

Pentium166 CPU (PentiumIII or higher recommended)

64 MB RAM (128 MB recommended)

1G free hard disk space (for full installation)

1 free USB port

1 projector (short focus or ultra-short focus projector recommended)

Chapter 3 Configuration

IQBoard UI D002 (Lite) IQBoard UI D001 (Standard)

Adopt corner fixing, can be used on normal whiteboard or RP TV

Standard configuration: IQBoard UI D002 (Lite) includes 1 receiver, 1 controller, 3m signal cable, 2m USB data cable, 1 signal pen (battery included), 1 fountain pen refill (black), 1 mouse pen, 1 corner fixing suite, 1 installation CD, 1 IQBoard Software, 1 user manual and warranty card, 1 carrying bag. The overall weight is less than 1.5 kg. Besides the above configuration, IQBoard UI D001 (Standard) include 4 colored signal pens (red, black, blue, green), 4 fountain pen refills (red, black, blue, green), and add an electronic eraser. The overall weight is less than 2 kg.

IQBoard UI D003

IQBoard UI D003 is the perfect combination of IQBoard UI D002 and IQBoard P3 P080. It also provided with hotkeys sticker for both sides of whiteboard.

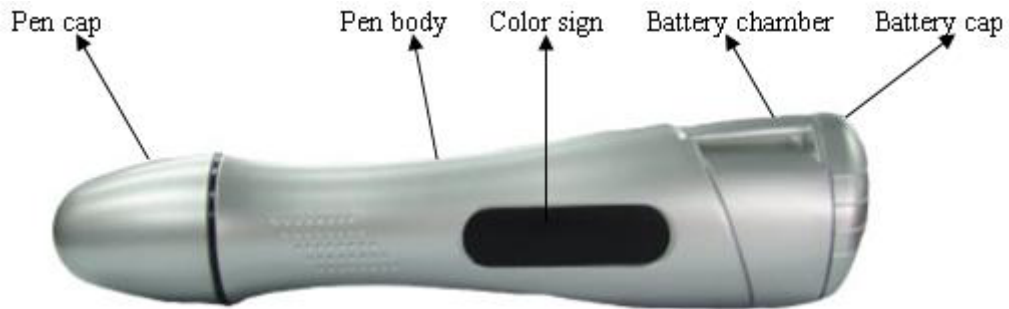
Standard configuration: 1 whiteboard surface, 1 receiver, 1 controller, 1 controller hanging cover, 1 10M USB cable, 1 signal pen (battery included), 1 fountain pen refill (black), 1 mouse pen, 1 wall hanging suite, 1 installation CD, 1 IQBoard Software, 1 user manual and warranty card. Provide optional mobile stand.

Especially recommend IQBoard Normal Whiteboard - IQBoard P3 P080 (80 inch P3 ceramicsteel whiteboard)

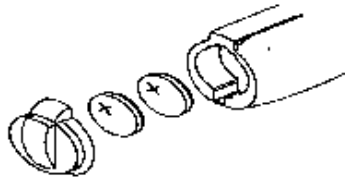
Adopting P3 ceramicsteel surface, IQBoard Normal Whiteboard is suitable for both normal pen writing and projection. It features with anti-scratch, high luminance, high definition, easy cleaning (can be completely cleaned by any normal board eraser, and won't be damaged by mark pen or crayon) and fluent writing. It is also flameproof, doesn't required special maintenance, and can completely eliminate bright spots. IQBoard Normal Whiteboard is provided with wall hanging suite and optional mobile stand.

Chapter 4 Install Hardware

4.1 Install signal pen



Open the battery cap counterclockwise, put into 2 button cells (CR2032), make sure positive pole (the surface marked with “+”) is up, and then close the cap clockwise, as follows:



Note: The battery cap and signal pen are bayonet-coupled, please do not operate fiercely when you open and close the battery cover, in order not to damage the bayonet.

Press down the clip on the battery chamber, push the battery chamber up, and put the fountain pen refill or mouse pen in, as follows:

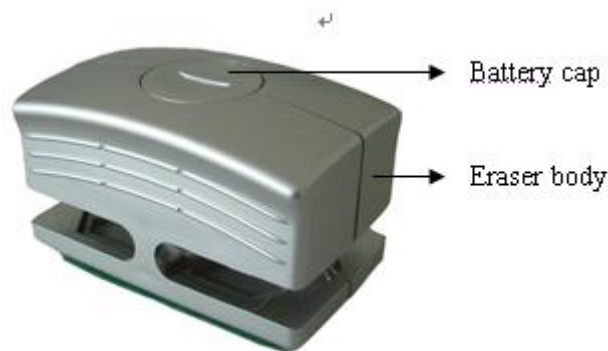




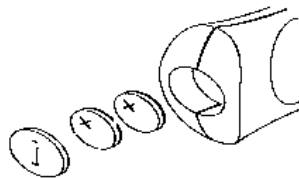
Note:

1. The colors of fountain pen refill should match the color sign of signal pen, so as to facilitate the color identification of signal pen during the usage.
2. Please take the battery out in case you won't use the signal pen for a long time to avoid power consumption.
3. After finish using the whiteboard pen, please take it out from the signal pen, to avoid the ink volatilization.

4.2 Install the electronic eraser



Press the battery cap down by finger nail or other tool, open it clockwise. Put into 2 batteries, make sure positive pole (the surface marked with “+”) is up, then put the battery cap back, press down and close it counter clockwise. As follows:



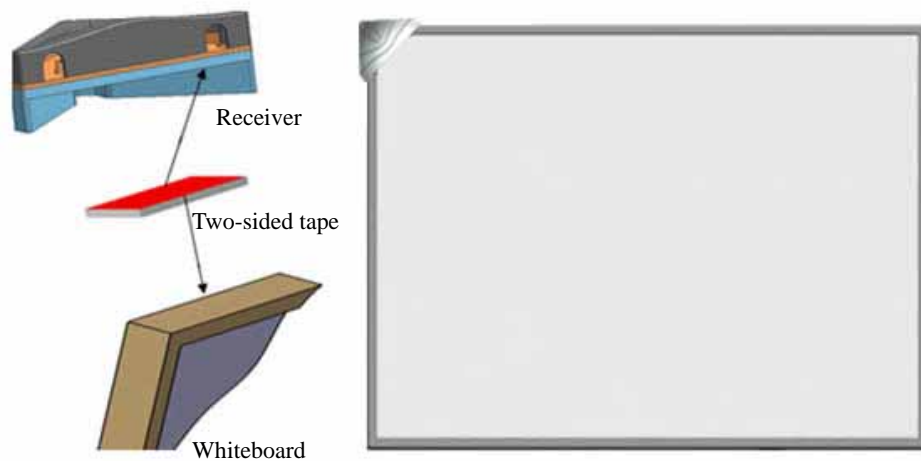
4.3 Install the receiver (IQBoard UI D003 can skip this step)

The receiver can receive the signal emitted by signal pen or electronic eraser, detect their location on screen or board, send it to controller through signal line, and the controller will transmit the location and operating information to computer through USB cable.

Generally the receiver is fixed on the whiteboard or LCD TV by two-sided tape or screw.

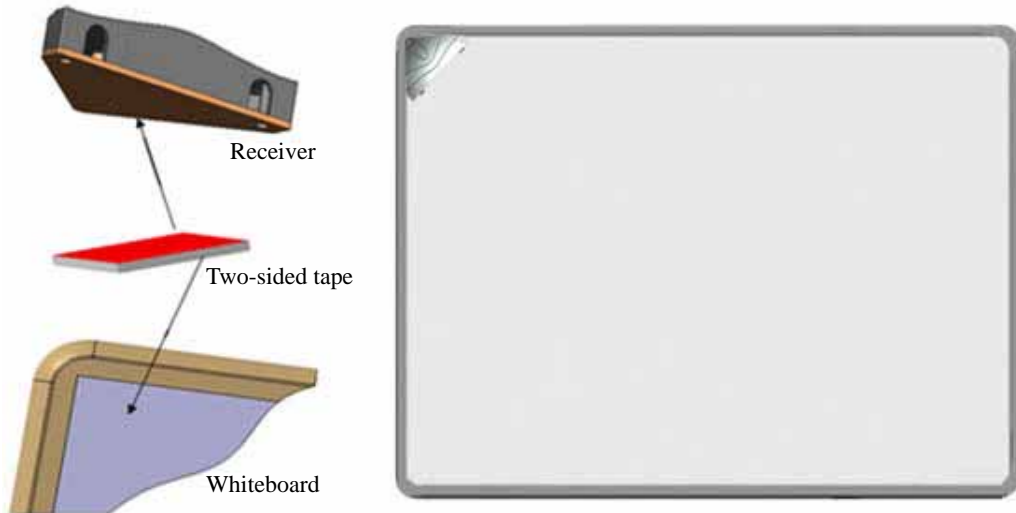
In case the frame of the whiteboard or LCD TV is level and smooth, take the following method:

1. Wipe out the dust on the left top corner of the frame
2. Install the receiver on its base,
3. Scissor 5cm two-sided tape;
- 4 Affix the two-sided tape on the correspond position of the receiver base,
5. Take off the protective layer,
6. Align the two sides of the receiver base with those of the frame corner, push the base down until the base and the frame are firmly stuck. The installation is complete.



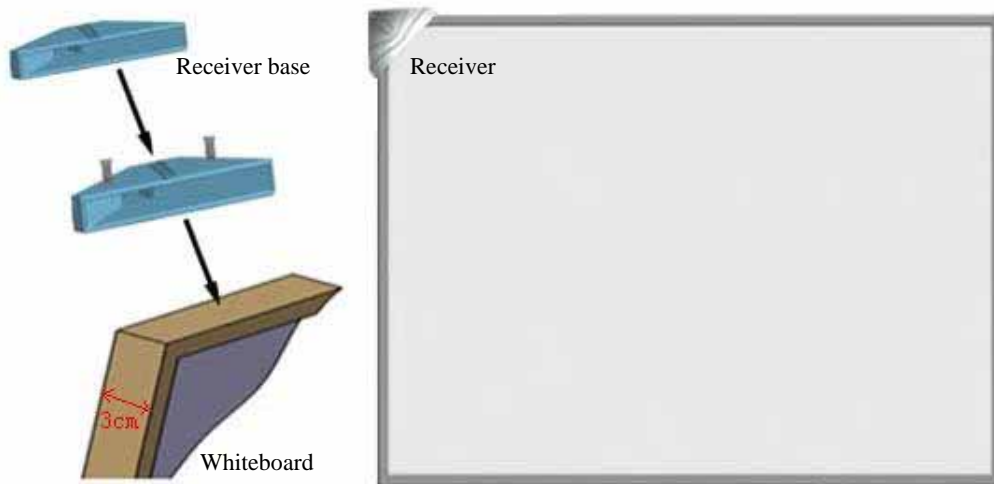
In case the frame of the whiteboard or LCD TV has curvy corners, take the following method:

1. Wipe out the dust on the left top corner of the screen or board surface
2. Remove the receive base
3. Scissor 5cm two-sided tape;
- 4 Affix the two-sided tape on the correspond position of the receiver underside,
5. Take off the protective layer,
6. Stick the receiver on the screen or board. The installation is complete.



Note: Try your best to make sure the two sides of the receiver is parallel to those of the frame corner. If the receiver inclines too much, there will be deviation in your operation and writing.



In case the board thickness of whiteboard or LCD TV is within 3cm, you can directly cover the receiver base onto the frame corner, tighten the base with 2 enclosed bolts, and install the receiver onto the base in right direction. As follows:



Note: The receiver is not suitable to be used in soft curtain or rough wall, for such surface can affect signal transmission.

4.4 Wall mounting for IQBoard P3 P080 (80 inch ceramicsteel whiteboard)

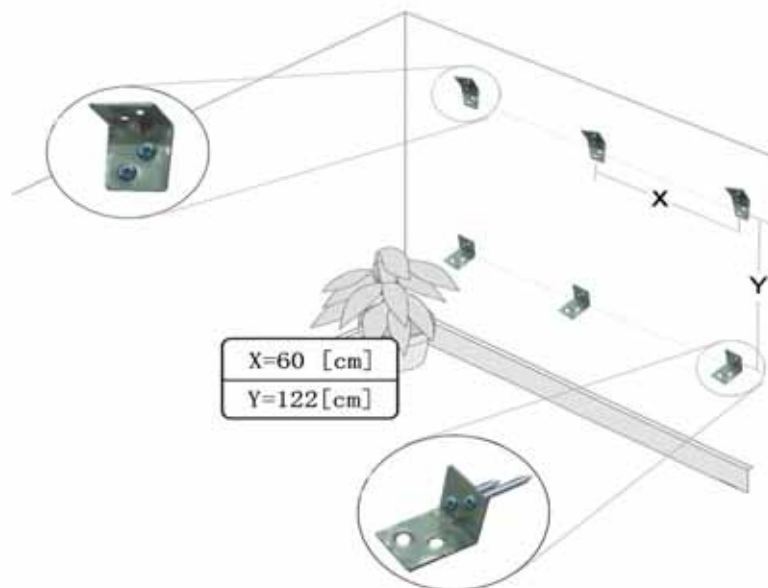
4.4.1 Part List

No.	Name	Quantity	Picture
1	Wall mounting bracket	6	
2	Self-tapping screw	24	

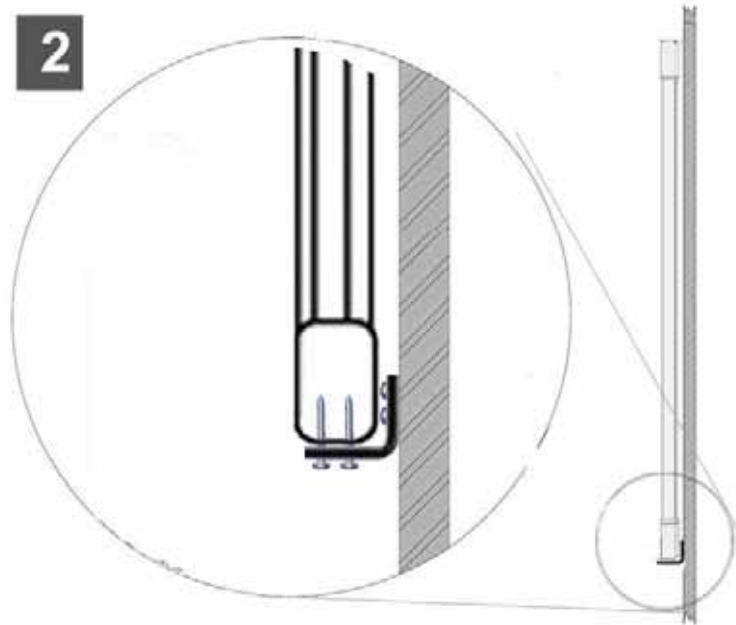
4.4.2 Installation steps

Step 1. Determine the position of the whiteboard lower edge, then screw 3 wall mounting brackets in the wall at this height (the distance between each 2 adjacent brackets is about 60 cm), as the picture below.

Step 2. Screw in the other 3 wall mounting brackets 122 cm above, as the picture below.



Step 3. Put the whiteboard on the 3 lower brackets, align the whiteboard with each bracket, then use self-tapping screws to secure the whiteboard on brackets, as the picture below.



4.5 Connection of the receiver and the controller

The receiver and the controller are connected through 6-pins S-terminal cable. Connect the S-terminal cable of receiver to the PS/2 port of the controller. In case you want to hang the controller on the wall, you need to drill two holes on the wall, screw in the anchor bolts and wall hanging screws (included in the wall hanging suite), then hang the controller on the wall hanging screws.

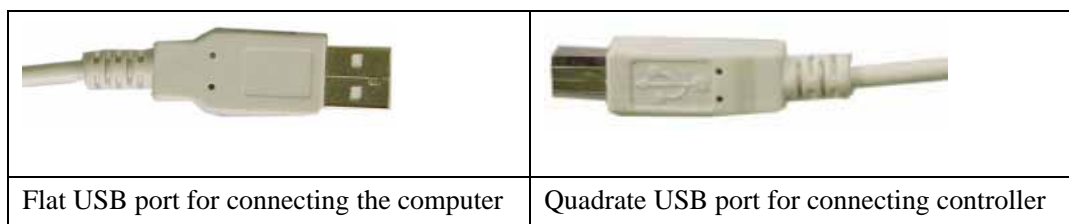


Note:

- 1. Please do not place the cable on the ground to avoid stumble. If you have to do so, please straighten and stick them on the ground with colored adhesive tape and wire.*
- 2. When retracting the IQBoard UI, please disconnect controller and computer, then disconnect receiver and controller.*

Chapter 5 Connect with Computer and Projector

To connect IQBoard UI with computer, you only need a USB cable, external power source is not required. After fixing the receiver and connecting with controller, Connect the flat side of the USB cable with the USB port on computer, and the quadrate side of the USB cable with the USB port on controller. Make sure the connection is secured. Now the indicator on controller should turn red.



IQBoard UI should be work with projector or TV. In case of projector, open the projector after connection, and adjust it to make its projection image within the projection area and centered. Then use the trapezoid rectification function of the projector to make the projection image quadrate.



This blue area is the projection area. Its range should be within 40-80 inch.

If you adopt wireless connection, please connect the flat USB port with USB power adapter, insert the power plug of power adapter into a power socket, and insert the wireless receiver into a USB port on computer.

Chapter 6 Install and Uninstall Drivers

6.1 Install drivers: Run “IQBoard UI Drivers” in the installation CD to install the drivers according to the prompt. The computer will automatically find a new hardware and install the drivers. After the installation, the indicator on the controller should be green, and will turn green after 5 seconds.



Note: 1.If it is the first time you connect the Whiteboard Genius, and the driver and orientation program are not installed, the system will prompt “Found New Hardware”. You can ignore or cancel this prompt, and install the driver and orientation program according to the above steps.

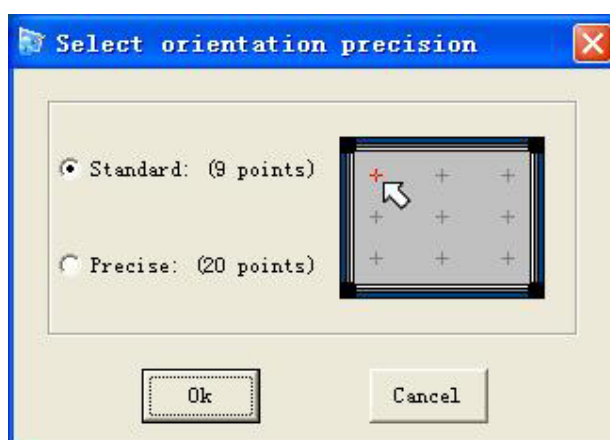
6.2 Uninstall drivers: Select “Start > Programs > IQBoard UI Drivers >Uninstall” to uninstall drivers. You also can open Control Panel, select “Add/Remove Programs”, and in the list of currently installed Programs, select “IQBoard UI Drivers”, then press the “Remove” button to remove the driver and orientation program.

Chapter 7 Orientation

At the first time you use IQBoard UI, you need to orient it, so the moving track of the signal pen or electronic eraser can match the cursor. You can select 9 points and 20 points orientation. Normally 9 points orientation is adopted. After IQBoard UI is oriented, you don't need to re-orient at the same environment.

Operation steps are as follows:

Step 1. Select *"Start > Programs > IQBoard UI Drivers > Orient"* to enter the Orient Precision Selection window, as follows.



Step 2. Select Orientation Points and click *"Ok"*, the orientation interface will appear. According to the arrows instruction, use electronic pen or writing pen (finger) to press the green center of the flickering red "+" on the surface. If the cursor is on the same point, this point is successfully oriented. And the next point appears. The whole orientation process is simply using your signal pen to click each orientation point in sequence.

Press ESC to exit



Step 3. The Orientation Interface will close automatically after finish the orientation. Then you can use signal pen to operate IQBoard UI normally. If you use IQBoard Software, the software can recognize the color of signal pen and the electronic eraser in Board Mode.



Prompt:

- 1. If you did not locate the accurate central point or clicked the wrong point, or the next fixed point appeared without press, please press "ESC" on the keyboard to exit this orientation and re-orient. Otherwise you can't operate the whiteboard accurately.*
- 2. In case the relative position of the whiteboard and projector is changed, or the drivers or the monitor resolution is altered, please re-orient.*
- 3. In the Orient Precision Selection window, right-click on the title bar, select "About (A)", you can view the current version of IQBoard UI.*

Chapter 8 Operation

8.1 Skills of pressing and writing

Single-click & Double-click: Do not raise the signal pen too much (about 1-2mm from the tip to the surface), keep the signal pen perpendicular to the surface ($\pm 15^\circ$), then press the surface at proper strength. The operation of double-click on writing surface has the same definition as double-click mouse in Windows, please make sure you click at the same point.

Drag: Use the signal pen to press an item and drag it to the appointed position (during which the pen tip should not leave the surface)

Write: If you use IQBoard Software, switch into “Board” mode, and you can use the writing tools to directly write on the surface. (The writing strength should be the same as using the normal whiteboard pen.)

Orient: If the pressing position does not match the cursor, please re-orient. If the deviation still exists, please check the installation of the whiteboard.

Mouse Right Key: When the cursor is in arrow status, holding signal pen on the writing surface for 2 seconds can popup right-key menu. If you use IQBoard Software, click “*Mouse Right Key*” button on IQBoard Software toolbar to achieve the right key function once. Select “Mouse Right Key” on the menu of IQBoard Software toolbar or taskbar icon, the right key status will remain.

Switch back to the Mouse Left Key: If the “Mouse Right Key” function can only be achieved once, then after you perform the function, the system will automatically switch back to left key status. If the “Mouse Right Key” function is permanent, you can select “*Mouse Left Key*” on the menu of IQBoard Software toolbar or taskbar icon to switch back.



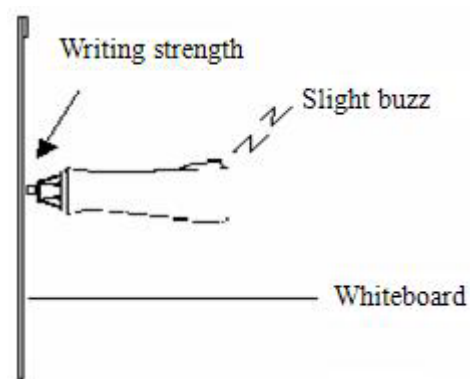
Note:

- 1. Please use the 1024*768 resolution. Close all energy saving modes to avoid performance delay caused by dormancy.*
- 2. To lengthen life span of the battery, please take it out if you will not use the electronic pen for a long time.*
- 3. When operating with signal pen or electronic eraser, the indicator on controller is green. After you move the signal pen or electronic eraser away, the indicator will turn red.*

8.2 Use signal pen correctly

When using the signal pen, please beware that:

1. Write at proper strength to guarantee that the signal pen can emit writing signal (slight buzz can be heard when you close your ear to the signal pen).
2. Try your best to make sure the signal pen and whiteboard is 90° perpendicular ($\pm 15^\circ$)
3. The position where you hold the signal pen should not be lower than the middle part, in order not to block the signal, as follows:



Chapter 9 FAQ

1. The indicator on the controller is not lighting or turns red.

1. The connection between receiver, controller and computer is not secured, please check and re-connect.
2. The USB port is damaged, please try another one. In case you are using desktop computer, please use its rear USB port.
4. IQBoard UI Drivers haven't been correctly installed. Please uninstall the drivers, restart computer, and re-install the drivers. After the installation is completed, please reconnect the USB cable with computer.

2. I can't use signal pen or electronic eraser to operate or write on projection area.

1. IQBoard UI Drivers haven't been started, please restart your computer or run "*BoardSer.exe*" in the installation folder directly.
2. IQBoard UI Drivers haven't been correctly installed. Please uninstall the drivers, restart computer, and re-install the drivers. After the installation is completed, please reconnect the USB cable with computer.
3. There is an object in front of the receiver that blocks the signal. Please remove the object.
4. The batteries of signal pen or electronic eraser are low (when pressing the pen tip of signal pen or electronic eraser, if the buzz is weak, it means the batteries are low). Please replace the batteries.
5. IQBoard Software hasn't been started, please start IQBoard Software first.

3. Signal pen or electronic eraser could only control part of the virtual whiteboard.

1. The orientation is not precise. Please re-orient.
2. The projection area is too large. Please keep it within 40-80 inch.

4. The stroke is abnormal, or it is hard to operate.

1. The orientation is not precise. Please re-orient.

2. The batteries of signal pen or electronic eraser are low. Please replace the batteries.

5. When writing or operating by signal pen or electronic eraser, the response is slow or inconsecutive.

1. The computer is not under normal running or the memory is occupied too much. Please close some opened applications or restart the computer.

2. There are interference source around the system, such as flashing red light, continuous mental collision sound, etc. Please avoid the interference source when operating.

3. The batteries of signal pen or electronic eraser are low. Please replace the batteries.

8. The pen tip of signal worn out.

Common abrasion will not affect normal operation. When the pen point is severely abraded, you can purchase it from local dealer.

Other questions, please consult our service center or local dealer.

Chapter 10 Cautions and Maintenance

10.1 Receiver and controller

1. Please do not use sharp or pointed objects to touch the signal receiving area in front of the receiver.
2. Please do not use wet cloth to clean the receiver or controller to avoid short circuit and other problems.
3. Please do not use and install IQBoard UI in dusty, foggy, wet and inclement environment. Keep it away from sharp object, heat source, corrosive chemicals, fire, and water.
4. Please firmly secure the receiver and controller to avoid falling and damaging the parts.

10.2 USB Cable

Do not put the USB cables on the floor where it may stumble others. If you have to do so, straighten them and use insulated adhesive tape or cable with contrast color to tie them up. Please handle carefully and avoid over-bending. Exposing the USB cable outside for a long time may shorten its life-span and cause other unnecessary damages, so please keep it carefully. If you use the whiteboard in the meeting room or class room, please fix the cable according to the cable alley.

10.3 Projection

Face the whiteboard when operating and writing on the projected image, stand aside when you turn back to face the students. Please do not look at the projector directly to avoid its strong light damaging your eyesight. Instruct students how to use the whiteboard, tell them do not to face the projector directly.

10.4 Transport

Please handle with care, and do not put any weight on the receiver so as to avoid damaging the parts. In long distant transportation, it is suggested to repack the whiteboard with the original packing. If the original packing is unavailable, insert some protective padding between the components to protect them from intense vibration or crash. Avoid vibration, dampness, electricity, water and pressure in transportation.

10.5 Part Replacement

Please do not disassemble the device or modify its inner structure so as to prevent accident or trouble. For maintenance or part replacement, please resort to our authorized technician. Make sure that you use our designated part or the one with same specification when replacing.