

IQBoard IR

User Manual



Copyright(C) 2003-2010 Fuzhou Returnstar Technology Co.,Ltd.

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

Tel: 0086-591-87274373

Fax: 0086-591-87274383

E-mail: master@recoverystar.com

Important Statements

This manual is for IQBoard IR.

The “Whiteboard” or “Interactive Whiteboard” in this manual all refer to IQBoard IR. The “Pen (Finger)” is used for IQBoard IR.

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.

Copyright

Returnstar, IQBoard are registered trademarks of Fuzhou Returnstar Technology Co.,Ltd. Windows is a registered trademark of Microsoft.

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

IQBoard IR is the latest interactive presentation boards. Connect IQBoard IR with your computer and projector, then simply touch the projection area with your pen or your finger, you can transform the pen or your finger to mouse and directly operate the computer on the projection area.

With IQBoard IR, 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 IR is provided with powerful IQBoard Software, which 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.

IQBoard Software also includes 500M IQBoard Resource Library covering more than 30 subjects, such as 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 saved as and freely converted to various picture files as well as DOC, PPT, XLS, PDF, HTML files, etc.

We provide continuous upgrading service for IQBoard Software. For more information and detailed operation about IQBoard Software, please refer to "IQBoard Software User Manual" in the installation CD.

Chapter 2 Specification

Performance: Effective resolution: 9600×9600, 300dpi; Signal tracking rate: 8m/s; Processing rate for writing or clicking: 480 dot/s. Provide 4, 9 or 20 points precise orientation.≤1.5 W. IQBoard IR provides sizes of 80 (4:3) and customized sizes.

Flexible fixing and relocating methods: Fixing methods include wall hanging, cabinets, and mobile stand. Provide optional height adjustable mobile stand for 50-120 inch whiteboards, the height can be adjusted from 1.88M to 2.12M.

Durable surface, solid body: The surface adopts dedicated writing film made of DuPont anti-abrasive coating. It features with anti-scratch, high luminance, high definition, easy cleaning (can be cleaned by whiteboard detergent or wet cloth), and can completely eliminate bright spots. The backboard, which is resistant to distortion, expansion and shrinkage, adopts PS board with high density. (Provide model supporting normal pen writing).

PC Connection: Provide 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).

Standard Configuration

IQBoard IR: 1 interactive whiteboard, 2 pens, 1 10M USB cable, 1 wall hanging suit, 10 pen tips, 1 driver CD (include the latest driver and user manual), 1 IQBoard Software (include user manual), 1 quality certificate, 1 warranty card.

IQBoard IR Models

R050, R060, R080, R100, R120 refer to IQBoard IR in relevant sizes. B means wireless connection. N means hotkeys and pen tray is not included. W means board surface supporting normal pen writing. For example, R080PCBNWY means 80 inches IQBoard IR adopting wireless connection, without hotkeys and pen tray, and supporting normal pen writing.

System Requirement

Windows XP/2003/Vista operation system
Pentium166 CPU (PentiumII or higher recommended)
64 MB RAM (128 MB recommended)
1G free hard disk space (for full installation)
1 free USB port
1 projector (short throw or ultra-short throw projector recommended)






Chapter 3 Install IQBoard

3.1 Mount Whiteboard

3.1.1 For product with an “M” on its name

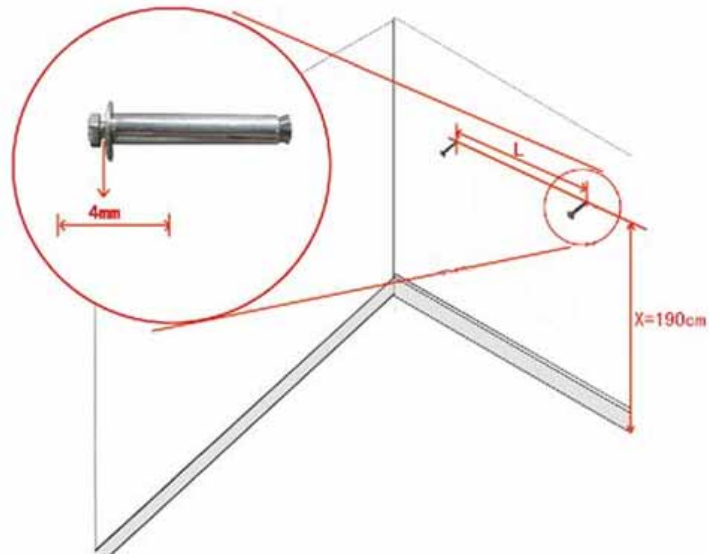
In case your product has an “M” on its name, you can select wall mounting.

Parts list:

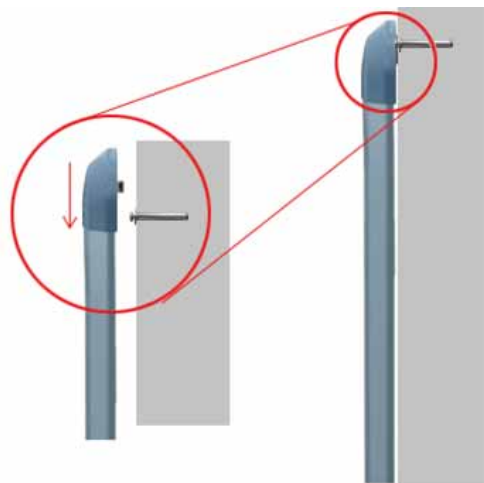
Picture	Name	Quantity
	Screw	4
	Wall Anchor	2
	Safety Bracket	2
	Anchor Bolt	2
	Wall Mounting Bracket (already mounted on the backboard)	2

Installation Steps:

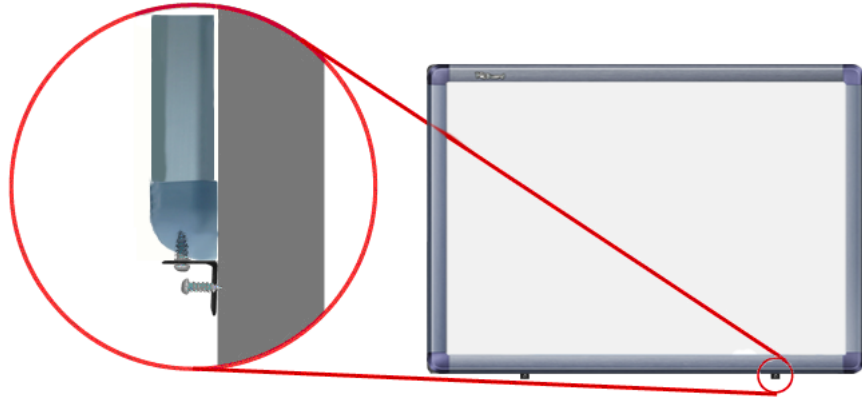
Step 1. Determine the installation height of the Anchor Bolt (190cm above floor), then measure the horizontal distance (70cm±3mm usually) of the two holes on the wall mounting bracket according to the location of the whiteboard, (Prompt: You'd better take the actual horizontal distance of the two holes on the board you bought as standard.) then drill a hole at both ends, later, screw the two Anchor Bolts into the holes and leave 4mm clearance between bolt head and nut. (As shown in the Figure)



Step 2. Align the Wall Mounting Bracket on the backboard with the Anchor Bolts, and hang the whiteboard on the wall.



Step 3. Fasten the 2 Safety Brackets on each side of whiteboard lower frame using 2 Screws. According to the location of the Safety Brackets, drill 2 mounting holes on the wall. Finally use Wall Anchors and Screws to fix the Safety Brackets on the wall.








3.1.2 For product with a “Y” on its name

In case your product having a “Y” on its name, you can select either wall mounting or stand mounting.

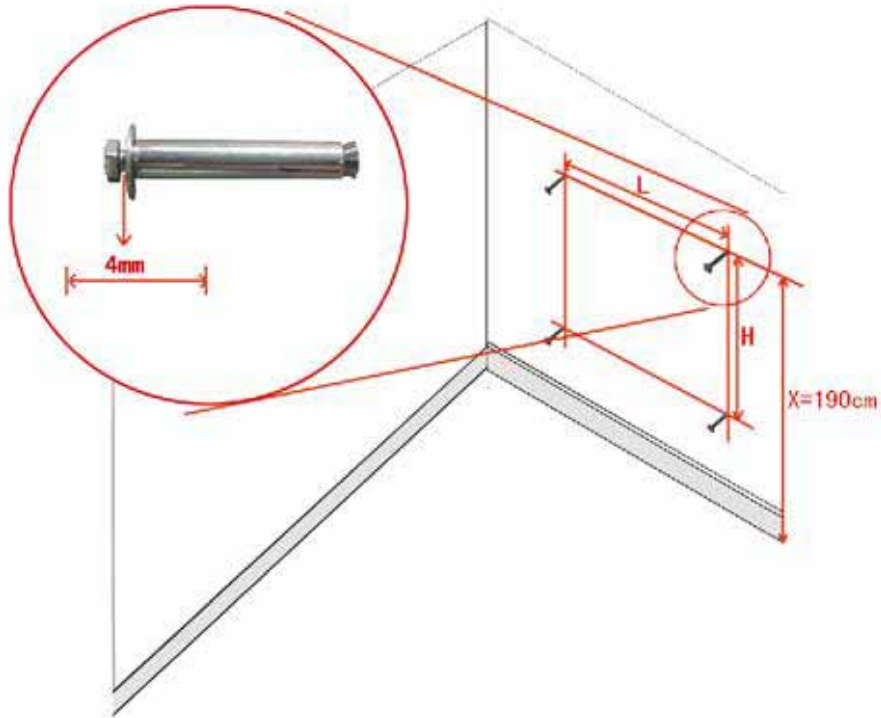
Wall Mounting

Part list:

Picture	Name	Quantity
	Screw	4
	Wall Anchor	2
	Safety Bracket	2
	Anchor Bolt	4
	Height Adjustable Bracket (already mounted on backboard)	4

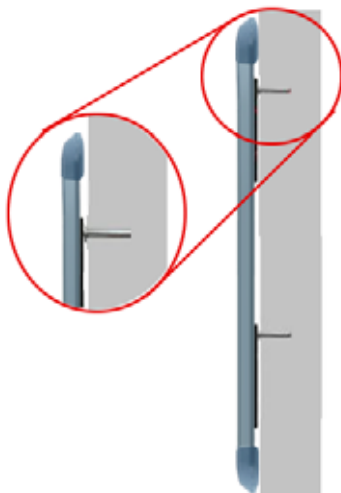
Installation Steps:

Step 1. Drill 4 holes at the location where you want to place the 4 Anchor Bolts, insert the 4 Anchor Bolts in these holes, and leave 4mm clearance between bolt head and nut for hanging whiteboard.

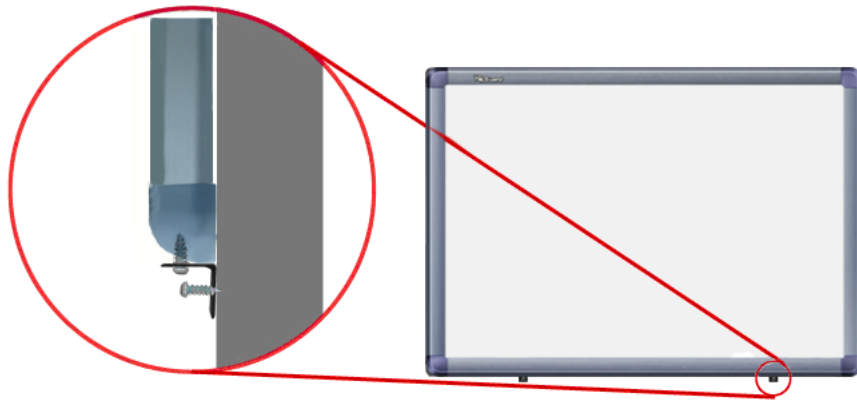


Prompt: The distance from floor to the 2 anchor bolts on top (Distance X) is 190cm. The vertical distance between 2 anchor bolts (Distance H) is 75cm for the "80" whiteboard. For the horizontal distance between 2 anchor bolts (Distance L), please measure horizontal distance of the 2 Height Adjustable Brackets on the backboard.

Step 2. Align the Anchor Bolts with the clip holes of Height Adjustable Bracket on backboard, and then hang the whiteboard on the wall.



Step 3. Fasten the 2 Safety Brackets on each side of whiteboard lower frame using 2 Screws. According to the location of the Safety Brackets, drill 2 mounting holes on the wall. Finally use Wall Anchors and Screws to fix the Safety Brackets on the wall.



Stand Mounting

Part List

Picture	Name	Quantity
	Leg Bar	2
	Column	2
	Supporting Bar	2
	Caster	4
	Moveable Crossbeam (Each includes 2 Beams and a U-Shaped Groove)	2

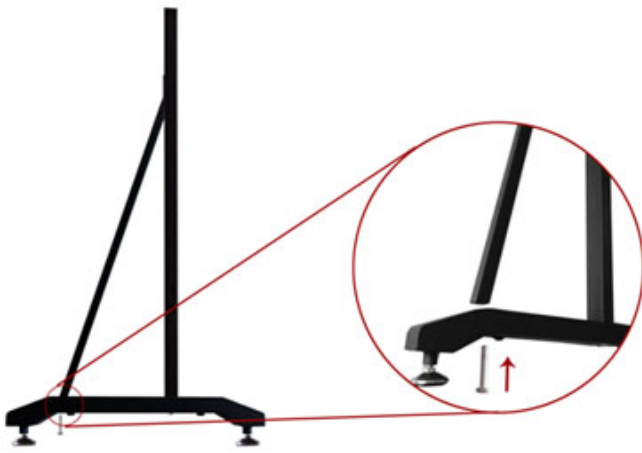
	Hexagon Bolt A	2
	Hexagon Bolt B (M8 x 50, with 08/22 washer)	4
	Hexagon Bolt C (M8 x 50)	8
 Each set includes: 1 Hexagon Bolt, 1 Wind Nut, 1 M8 Nut, 1 Small Washer, 1 Big Washer	Hexagon Bolt Set A (M8 x 50)	6
 Each set includes: 1 Hexagon Bolt, 1 Wind Nut, 1 Small Washer, 1 Big Washer	Hexagon Bolt Set B (M8 x 35)	4
	Anchor Bolt (M8 x 60)	4
	Wrench	1

Installation Steps:

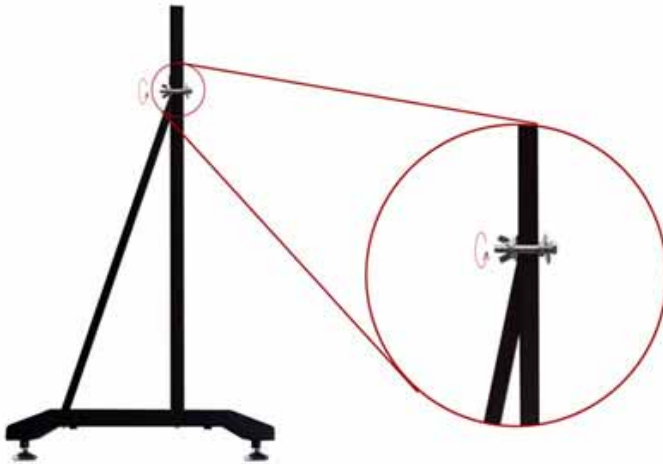
Step 1. Install Column on each Leg Bar using Hexagon Bolt B.



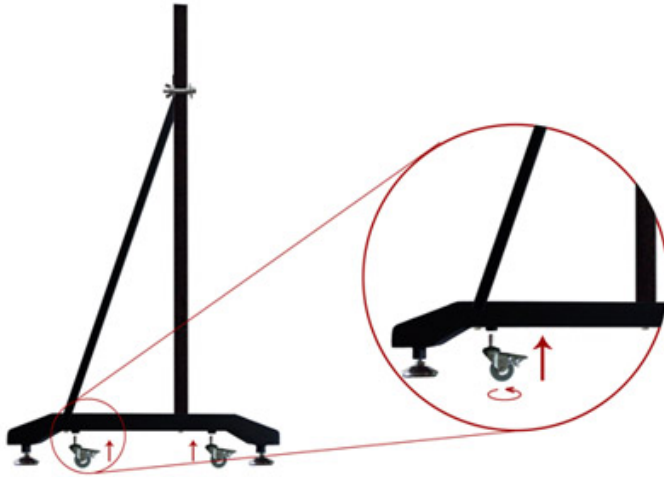
Step 2. Install one end of each Supporting Bar on each Leg Bar, using Hexagon Bolt A.



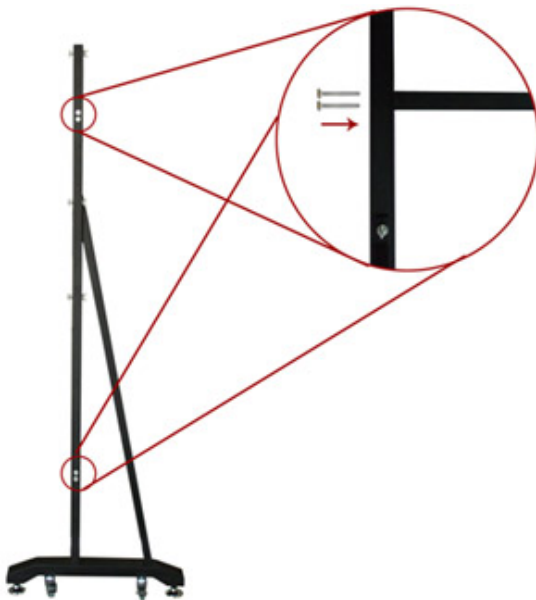
Step 3. Install the other end of each Supporting Bar on each Leg Bar, using Hexagon Bolt Set A. In this stage, please partially screw the bolt, leaving 4mm clearance between bolt head and column for hanging whiteboard.



Step 4. Install 2 Casters on each Leg Bar.



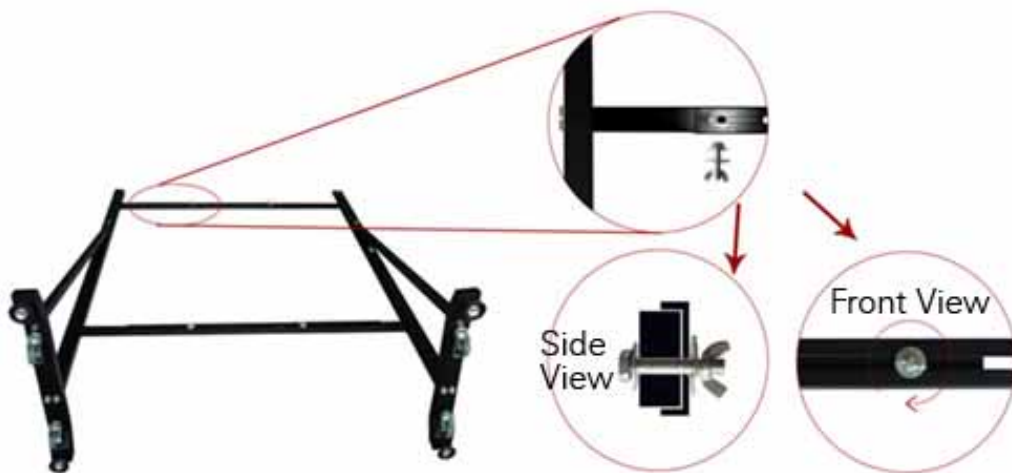
Step 5. Install 2 Beams on each Column, using Hexagon Bolt C



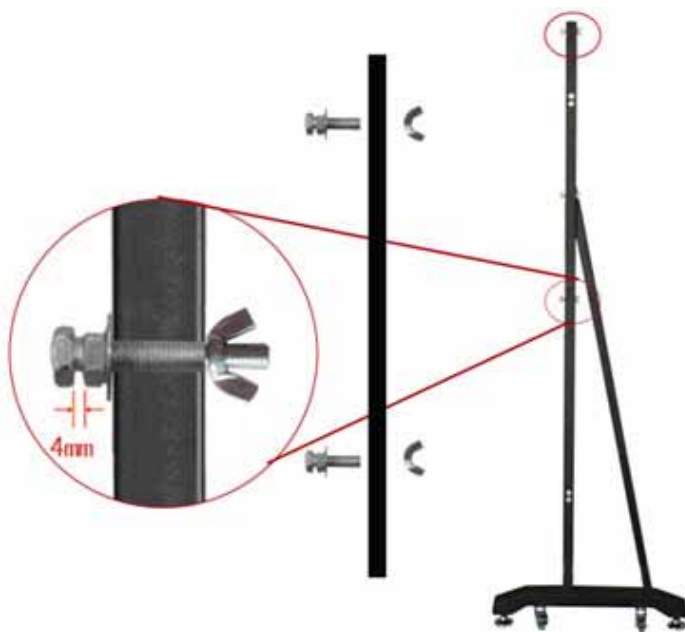
Step 6. Lay down and connect the two leg assemblies with the U-Shaped Grooves.



Step 7. Secure the U-Shaped Grooves with Hexagon Bolt Set B. In this stage, do not completely tighten the bolt in order to adjust the stand width later.



Step 8. Install 2 Hexagon Bolt Sets A on each Column, leaving 4mm clearance between bolt head and nut for hanging whiteboard.



Step 9. Align the Hexagon Bolt on the Column with the clip holes of Height Adjustable Bracket on backboard, and hang the one side of whiteboard on the stand. Then adjust the stand width to fit the whiteboard, and hang other side of the whiteboard on the stand. Finally, tighten the bolts on the U-Shaped Groove and Columns. on Hexagon Bolts.



Prompt

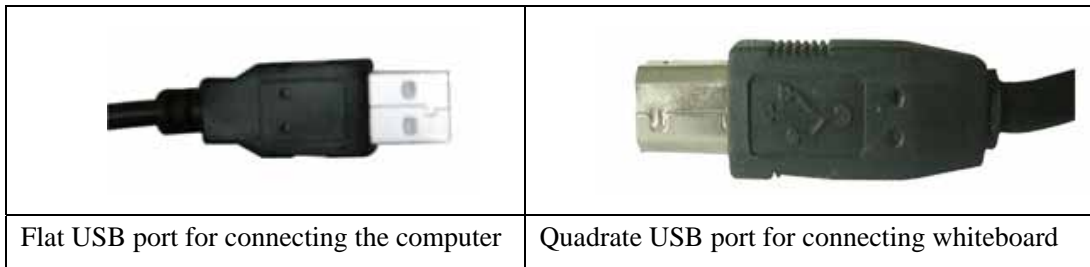
- 1. You can use different clip holes of the Height Adjustable Bracket to adjust the whiteboard height. Generally the bottom of the whiteboard should be 70-80cm above the ground.*
- 2. For 80 inch whiteboard, you can hang the whiteboard on the first and third bolts from top down on the Column.*

Fully assembled whiteboard is as follows:



Chapter 4 Connect IQBoard to Computer

After fixing the whiteboard, find a connecting port on the backboard right bottom. Plug the quadrate side of USB cable into the connecting port, and plug the flat side into the available USB port of computer, as follows. External power source is not required. And please connect the Projector into the VGA port of your PC video card.



If your product model is with “B” letter (refer to “About model” for detailed explanation for product model), you also can use wireless Bluetooth for PC connection, the connecting steps are as follows:

Step 1. After fixing the whiteboard, insert the round terminal of the 5V transformer into a round jack on the backboard right bottom, and insert the power plug of the 5V transformer into a power socket.



Note: If your product model is with “N” letter (refer to “About model” for detailed explanation for product model), the round jack is on the right bottom of the backboard.

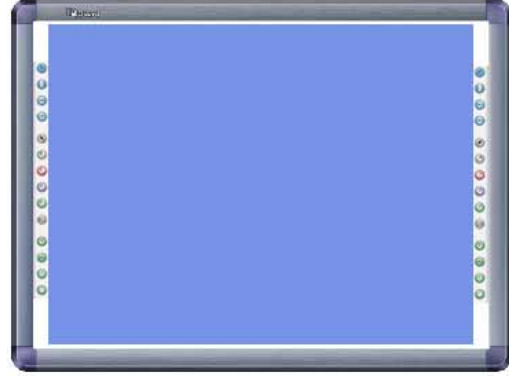
Step 2. Plug the Bluetooth adapter into an available USB port of computer. And please connect the Projector into the VGA port of your PC video card.



Start the projector after connection, and adjust it to make its projection within the active area and centered. Then use the trapezoid rectification function of the projector to make the projection quadrate.



Maximum projection area for whiteboards without hotkey



Maximum projection area for whiteboards with soft hotkeys

The blue areas are the maximum projection areas. For whiteboards without hotkey or with hard hotkeys, there should be 1cm margin between projection area and whiteboard inner frame. For whiteboards with soft hotkeys, the projection area should not exceed the hotkeys.



Note:




- 1. In case you use 16:9 whiteboard, please choose the projector supporting the 16:9 projection mode.*
- 2. The projection image must be within the active area of the whiteboard, otherwise the whiteboard cannot work normally.*

Chapter 5 Install and Uninstall Drivers

5.1 Install Drivers

Run "IQBoard IR Drivers.exe" in the installation CD, and install the drivers according to the prompt. The computer will automatically find a new hardware and install the drivers.

After the installation is completed, if the indicator beside the USB connecting port turns green, the whiteboard can be used normally. If the indicator turns red, it means the USB cable is not well connected, please re-connect the USB cable or restart computer. If the indicator is not lighting, it means the USB cable is not connected.

		
Indicator is not lighting	Indicator turns red	Indicator turns right
USB cable is not connected.	USB cable is not well connected, or the drivers are not correctly installed	The whiteboard works normally.



Prompt:

1. If it is the first time you connect the computer to the whiteboard, and the drivers are not installed, the system prompt "Found New Hardware", you can ignore or close the prompt, and continue to install the driver accord to the above steps.
2. You can the drivers under any Windows user account (Administrator, Guest, and Limited User).
3. After the drive installation is finished and the whiteboard is normally connected, the system will prompt you that "Initializing the hardware, please do not touch the writing area..... ". Please do not operate until the initializing process is done.

5.2 Uninstall Drivers

Select "Start > Programs > IQBoard IR Drivers >Uninstall" to uninstall. You also can open Control Panel, select "Add/Remove Programs", and in the list of currently installed Programs, select "IQBoard IR Drivers", then press the "Change/Remove" button to remove the drivers.

Chapter 6 Setup IQBoard

6.1 Orient IQBoard

At the first time you use the whiteboard, you need to orient it, so the moving track of the pen (finger) can match the cursor. You can select 4 points, 9 points or 20 points orientation. Normally 9 points orientation is adopted. After the whiteboard is oriented, you don't need to re-orient at the same environment.

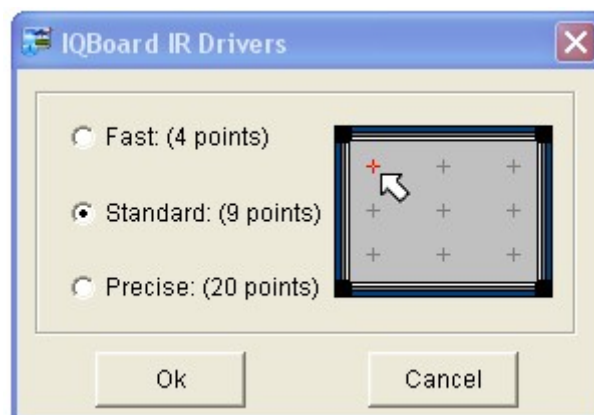
To orient the whiteboard

1. Do one of the followings:

Select *"Start > Programs > IQBoard IR Drivers >Orient"*

If soft keys are built in whiteboard, press "⊕" in the hotkey bar.

The Orient Precision Selection window appears.



2. Select Orientation Points and click "Ok", the orientation interface appears.



3. Do one of the followings:

If you use pen or finger, follow the on-screen instructions, press the center of each cross accurately with pen or finger tip.

Your whiteboard is now oriented.



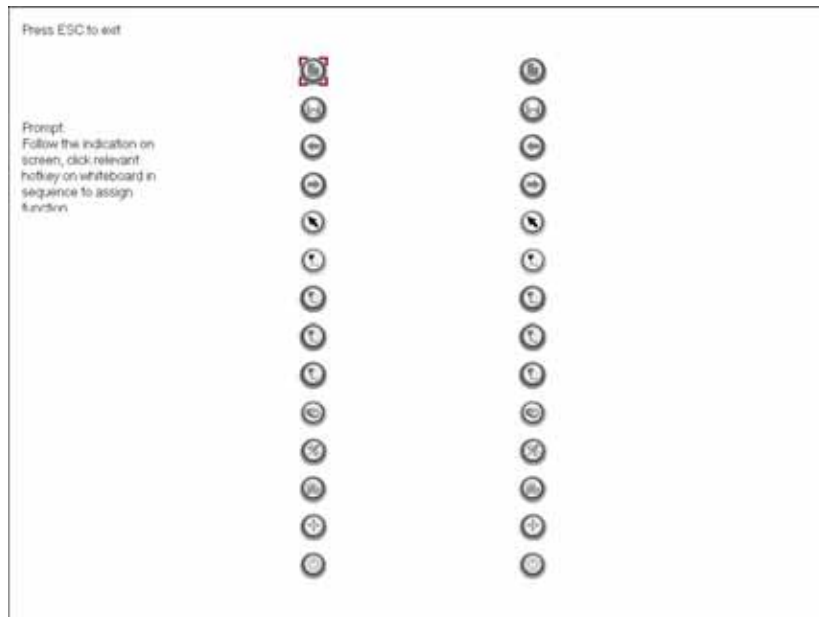
Prompt:

- 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. Please make your stylus (finger) upright when orienting.*
- 3. In case the relative position of the whiteboard and projector is changed, or the driver or the monitor resolution is altered, please re-orient.*

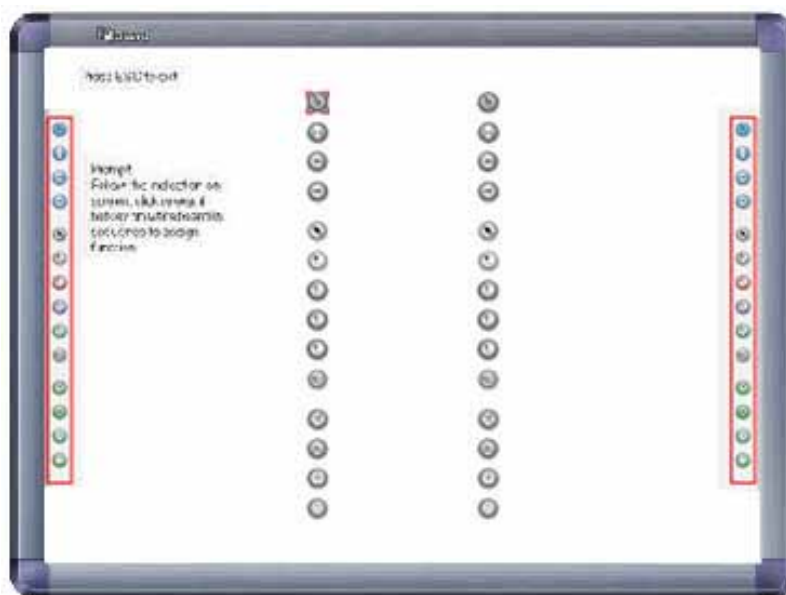
6.2 Setup Hotkey

At the first time you use the whiteboard with soft hotkeys, you need to set these hotkeys.

Step 1. Select "Start > Programs > IQBoard IR Drivers >Soft key setting" to enter the setting window, as follows



Step 2. Follow the indication on screen, click relevant hotkey in sequence. After the setting is completed, you can use these hotkeys.



Prompt:

1. When setting the soft hotkeys, if some error occurs, you can press "ESC" key on the keyboard to exit the setting process, and then reset the hotkeys.
2. You don't need to set the hard hotkeys.

Chapter 7 Use IQBoard

7.1 Basic Operations

For IQBoard IR, you can use the enclosed pen or your finger to write or perform mouse function. Following are the tips for some basic operations:

Single-click

If you use pen or finger, press the surface with pen or finger tip at proper strength.

Double-click

If you use pen or finger, press the surface twice with pen or finger tip at proper strength. Please make sure you press at the same point.

Right-click

If you use pen or finger, press the surface with pen or finger tip, and hold for 2 seconds to popup the right-key menu.

Drag

If you use pen or finger, press an object with pen or finger tip and hold, then move the pen or finger to drag the object to the desired position.

Write:

If you use pen or finger, start IQBoard Software, select a drawing tool, then you can write or draw by pressing the surface with pen or finger tip.

Start IQBoard Software

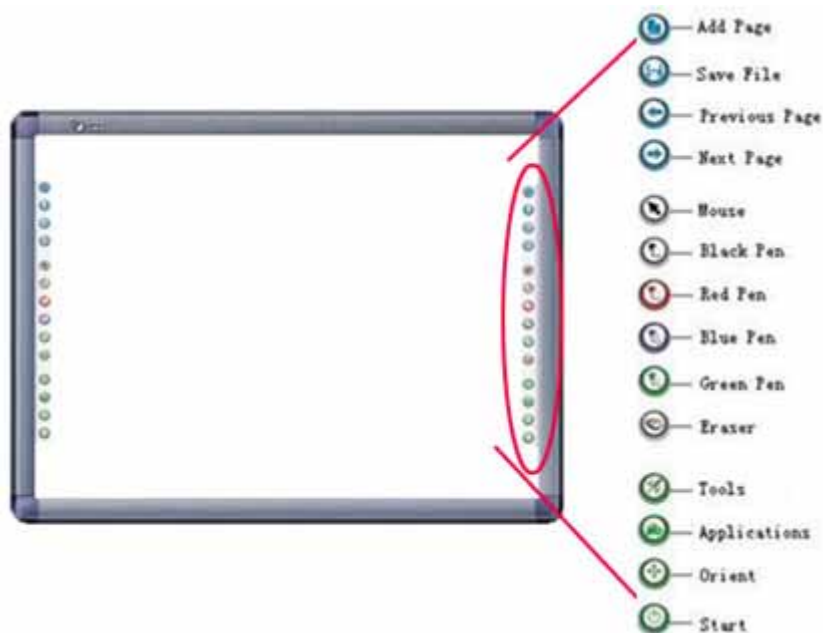
If IQBoard Software hasn't been started, you can press interactive whiteboard with your palm to start IQBoard Software.




Prompt:


1. When you want to erase content, we recommend you pressing interactive whiteboard with your palm. When you want to perform mouse function, we recommend you pressing interactive whiteboard with two fingers closed.
2. When default drawing tool and eraser are Pencil and Normal Eraser. If you have selected other Freehand Drawing Tool or Eraser before, IQBoard Software will use your previous selections.


7.4 Use Hotkeys on whiteboard




Following is the introduction of these hotkeys.

Add Page : In Windows Mode, press this key to clear all annotations on screen. In Board Mode, Press this key to add a new page in current “cdf” file.


Save File : In Windows Mode, press this key to save all annotations on screen to a page in current file. In Board Mode, press this key to save the current “cdf” file.


Previous Page : Press this key to go to the previous page.


Next Page : Press this key to go to the next page.


Mouse : Press this key, you can use writing pen (finger) to achieve click, double-click, and drag function. When using IQBoard Software, press this key to switch between “Windows” and “Board” mode.


Pen: There are four “Pen” keys in different colors on the hotkey bar. Press one of these keys, you can write on board in corresponding color. Press “Pen” twice to modify its properties.

Eraser : Press this key, you can erase the writing content on board. In “Windows” mode, press this key twice to popup the “Shut Down Windows” window.

Tools : Press this key to popup a quick access bar including shortcut icons for frequently used tools in IQBoard Software. You can add up to 8 shortcut icons in this bar.

Applications : Press this key to popup a quick access bar including shortcut icons for frequently used applications. You can add up to 8 shortcut icons in this bar.

Start : Press this key to start the IQBoard Software.

Orient : Press this key to popup the 9 points orientation interface.



Prompt:

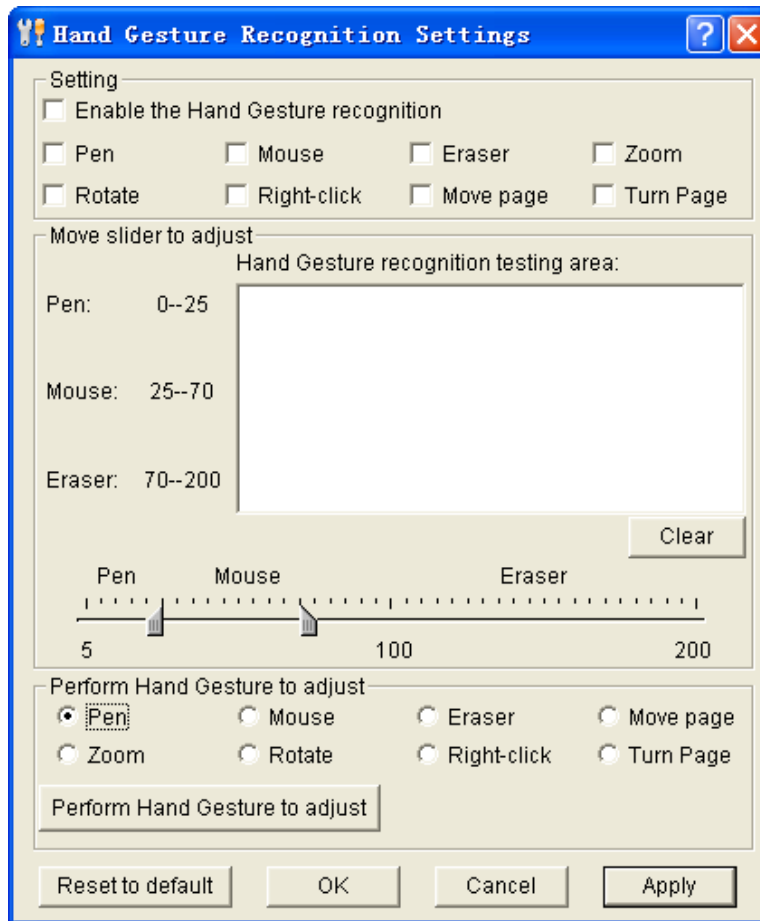
1. Except the “Start” and “Orient” keys, all hotkeys are functional only after IQBoard Software is started.
2. The functions of “Frequently Used Tools”, “Frequently Used Applications”, “Orient” can be opened or closed by press the relevant hotkeys on the hotkey bar.

Chapter 8 Gesture Recognition

The Gesture Recognition can perform tasks such as zoom, rotate and scroll quickly and easily, but no tool switching required. This new features can be on the IQBoard C series.

To enable Gesture Recognition

Select “Start >Programs >IQBoard IR Drivers >Gesture Recognition Setting”.
Select the Enable the gesture recognition check box.



Prompt:

The default setting of gesture recognition is off, once you installed the drivers, you have to turn it on from the control panel.

The gestures of “Move page” and “Turn page” are the same so that can’t be activated at the same time. “Turn page” is the enabled in default setting.

To customize the Gesture Recognition sensitivity

1. Move slider to adjust

Move the sliders to change the value of each range for functions. The wider the value range, the easier you can perform the related function.

2. Perform to Adjust

An intelligent way to adjust the gesture recognition, performing you hand gesture to customize the function for “Pen”, “Mouse” and “Eraser”.

Select “Pen” >click “Perform to Adjust” >press the testing area for one second with pen tip

Select "Mouse" >click "Perform to Adjust" >press the testing area for one second with two fingers

Select "Eraser" >click "Perform to Adjust" >press the testing area for one second with hand palm

3. Gesture testing area:

Once the gesture recognition is set already, you can still test it. Pressing with hand palm, the cursor will turn to the icon of each function, or the function's name will show on the testing area.

4. Reset to Default

To reset Gesture Recognition sensitivity to default settings, click "Default".

Basic operations

1. Single/Double Click

Simply click the active area with pen tip or finger quickly and make sure click at the same point.

2. Right Click

To achieve the function of right click, do one of the following:

1. When the left-click is on, press the whiteboard area for 2 seconds with your pen or finger to activate the right-click;
2. In Windows mode, touch the whiteboard page with one finger, and tap the whiteboard page quickly with another finger. (The distance between 2 touch points should be within 5cm)

Use Gesture Recognition

1. Starting IQBoard Software

Tap with five fingers or your palm to activate IQBoard Software.

2. When in Board, Playing, Windows and Reviewing Modes

Tap with one finger to achieve "Freehand Drawing Tools".



3. Mouse function



When in Board, Playing, Windows and Reviewing Modes

Tap with two fingers to imitate “Mouse Function”.

4. Eraser



When in Board, Playing, Windows and Reviewing Modes

Tap with your palm to enable “Erase Function”.

5. Move Page



When in Board Mode

Tap and drag with more than three fingers to “Move page”.

6. Zoom in the Object



When in Board, Windows and Reviewing Modes

Pinch two fingers apart on an object to “Zoom in Object”.

7. Zoom out the Object



When in Board, Windows and Reviewing Modes

Pinch two fingers together on an object to “Zoom out object”.

8. Rotate



When in Board, Windows and Reviewing Modes

Touch two spots on an object and twist to rotate it.

9. Right-Click



When in Windows Mode

Press and tap with a second finger to achieve Right-click function.

10. Zoom in the Page



When in Board Mode

Pinch two fingers apart on a blank area to “Zoom in page”.

11. Zoom out the Page



Pinch two fingers together on a blank area to “Zoom out page”.

12. Previous Page



Flick upwards with more than three fingers to “Switch to previous page”.

13. Next Page



Flick downwards with more than three fingers to “Switch to next page”.

Chapter 9 FAQ

1. The whiteboard indicator is not lighting or twinkling, or turns red.

1. The USB cable is not well connected with whiteboard or computer, 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.

3. If you use wireless connection, please make sure you have inserted the round terminal of the 5V transformer into a round jack on the right side of pen tray, inserted the power plug of the 5V transformer into a power socket, and well connected the Bluetooth adapter and computer with USB cable.

4. IQBoard IR Drivers haven't been correctly installed. Please uninstall the driver, restart computer, and re-install the driver. After the installation is completed, please reconnect the USB cable with computer.

5. If the red indicator blinks, the reason may be that the control box is not well connected with the whitboard , please consult our service center or local dealer.

2. What kind of orientation precision should I select?

It depends on your requirement of orientation time and accuracy. You have the following choices:

Quick orientation (4 points): for fast orientation

Standard orientation (9 points): for most of situations

Precise orientation (20 points): for high-definition system

3. When operating and writing on the whiteboard, the position of pen or finger doesn't match the position of cursor.

1. The relevant location of projector and white has been changed. Please re-orient the whiteboard.

2. The projection area has trapezoid distortion, please adjust the projection area, and re-orient the whiteboard.

3. When orienting the whiteboard, the pen or finger is not perpendicular to the surface,

please re-orient with correct posture.

4. When orienting the whiteboard, the pen tip or finger tip missed the green center of the red orienting cross, please re-orient the whiteboard.

5. The filters around whiteboard have been shaded by other objects, such as dust or chalk dust and so on. Please keep filters clean.

4. When operating and writing on the whiteboard, the system respond is slow, or the stroke is intermittent.

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

The operating or writing force is uneven. Sometimes the force is too light to be sensed.

Initializing hardware failed. Please reconnect the cable with board to initialize the hardware again.

Please check whether the whiteboard indicator is green, if not, please refer to the solution of Question 1.

5. When I operate and write on the IQBoard IR, the system doesn't respond.

Please reconnect the cable with board to initialize the hardware again.

Please check whether the whiteboard indicator is green, if not, please refer to the solution of Question 1.

6. What if part of area in IQBoard IR Interactive Whiteboard can not work or write?

1) Hardware initialization failed. Please reconnect USB cable and try again when hardware initialization finished.

2) Make sure that you do not touch the board when the hardware initialization is processing. If you touch the board, it will cause this problem. Please reconnect the USB cable or restart computer then try to operate or write on the board after hardware initialization finished.

7. The pen tip worn out.

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

8. When I use Gesture Recognition function, the whiteboard often misinterprets

my intent.

When pressing the surface with pen, finger or palm, please use certain strength. If the problem persists, please readjust the Gesture Recognition's sensitivity to suit your style.

You can enable the "Perform to adjust" to readjust the functions.

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

Chapter 10 Cautions and Maintenance

9.1 Whiteboard

For the interactive whiteboard that do not support normal marker (the product model is without “W”), please try not to use normal marker to write on the surface. Before cleaning, please shut down the computer and switch the projector into standby mode to make the dirt more obvious. In case of normal dirt, spray some water or detergent on the surface, then use the paper to wipe the dirt out. If you leave some ink trail by mistakenly using the fountain pen, please buy some special whiteboard detergent and spray it on the soft cloth to clean to surface. For cleaning the mark left by the permanent marker, first paint some ink of dry erase marker on the mark (the ink of dry erase marker can dissolve the ink of permanent marker), then use soft cloth to clean. If the mark still exists, spay some whiteboard detergent, and clean it out.



Note: Please do not use other organic solvent for cleaning. Otherwise it may permanently damage the surface.

2. For the interactive whiteboard that support normal marker, you can use normal whiteboard eraser and wet cloth to clean.



Prompt: Clean the frequently used whiteboard once a week to keep the best definition.

3. Please do not use sharp or pointed objects to scratch the surface and frame, otherwise the scratched part may be damaged, and won't work normally. During the usage, do not knock the surface fiercely to avoid the damage of whiteboard surface and writing pen. You can use sand wax to eliminate the scratch on the surface, and use dry cloth to clean out.

4. Since the mobile stand (or the wall hanging parts) is designed only to support the weight of the whiteboard, please do not put the additional weight or pressure on the whiteboard. Please keep the whiteboard away from intense collision, shaking, pressing and do not install it by force, otherwise it may cause cracking, short circuit and surface distortion.

5. Please do not use and install interactive whiteboard in dusty, foggy, wet and inclement environment. Keep it away from sharp object, heat source, corrosive chemicals, fire, and water. Please do not put the whiteboard in the outlet of hot air, otherwise the material will deteriorate and its life-span will be shortened.

6. To avoid harm from improper operation, please do not use chair or other tool to help short students use the whiteboard. If students can not use whiteboard because of the limitation of their height, please low down the whiteboard under the help of professional technician.

9.2 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.



Note: *Since the USB cable and port are made in special specification, please do not use other USB cable and port for replacement.*

9.3 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 not to face the projector directly.

9.4 Transport

Please handle with care, and do not put any weight on the surface so as to avoid the surface distortion and damage. Lay the whiteboard upright during the transportation or storage. 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.

9.5 Part Replacement

Please do not disassemble the whiteboard 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.