



# User Guide

For Acromeeet Interactive Whiteboard System

(PJ100W)

 **NANJING FRENTec CO., LTD**

**[www.frentec.cn](http://www.frentec.cn)**

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## Introduction

PJ100W series product is an interactive whiteboard system bundled installation with projector from Frentec Technology. PJ100W made it realized that where there is a projector there is electronic whiteboard, you can transform any projecting screen into electronic whiteboard by simple equipment installation.

The products are mainly used in teaching, meeting, presentation etc and can turn any large screen into an interactive whiteboard or touching screen. Featured with “real-time annotation, free writing, instant saving, spiritual interactivity”, it can create more opportunities for improvisational, illuminating, creative discussion and interaction in the classroom. Lecturers can operate computer on the projection screen directly by pointer e-pen/stylus e-pen (optional) and express their thoughts by annotation and drawing functions at any time, therefore it can increase interactivity and efficiency remarkably. It is a new electronic teaching and meeting presentation interactive system.

### Features

● **Operate and write on projection screen directly, free from mouse and keyboard.**

——You can operate the computer on the screen directly by Acromeeet stylus e-pen/pointer e-pen and easily finish highlighting, marking and annotating on previous documents. The operation on Word, Excel, PowerPoint, HTML pages etc. can be saved in the computer so as to review, print or send to others by e-mails.

● **Support projection screen of any size up to an amazing 150**

——With primacy in technology, Acromeeet stylus e-pen/pointer e-pen doesn't have any special requirements for projection screen. Regardless of a curtain or ordinary wall, it can be transformed into an interactive whiteboard. Compared with other portable interactive whiteboards currently available in the market, Acromeeet product is the only existing interactive whiteboard system that supports projection screen of any size up to an unrivalled 150.

● **30cm up to 1.2m extendable pointer e-pen, meet all kinds of demands of Chinese teaching**

——Considering teaching environment in china, Acromeeet characteristic extendable pointer e-pen can meet demands of any size of projection area.

●**Hi-resolution, superior stability, no drawing jagged and flip.**

——With advanced image processing techniques introduced, Acromeeet series products have smooth drawing and superior stability.

●**Response time less than 25ms, no perceptible lags.**

——We have solved difficult problems such as lags when annotating documents and kept it less than 25ms.

●**Bundled installation with projector, automatic positioning calibration**

——With the signal receiver installed and first positioning calibration implemented, no further calibration is required even when connected to another PC.

## Product Specifications

Signal Receiver	
Optical Detection Technology	Infrared
Active reception Area (max projection area)	150 inch diagonal
Horizontal Reception Angle	$38 \pm 2^\circ$
Active Distance (from projection to screen)	1.5 – 4.5 m
Communication Interface/Distance	RJ45 access, HID transmission( the longest effective distance up to 15 m)
Position Calibration Mode	Manual Calibration, software calibration, automatically position recover (when running again)
Resolution	Within 1 pixel jitter at centre for display resolution of 1024X768(for optimal installation conditions)
Response Time	<25ms(It depends on the computer)
Power Consumption	< 900mW
Weight	39g
Dimension	71 X41 X23.5(mm)
Adapter	
Interface	Mini USB,RJ45
Weight	20g
Dimension	55 X35 X20 (mm)
Installing Support	
Subpanel Size	9.1 X12.1(cm)
Support Bar Length	The longer one 16cm; the shorter one 4.2cm

### Pointer E-Pen

Light Emitted	infrared
Control Button	1 button
Battery	Battery AA x 2
Working Current	40—50 mA
Pen Body Dimension	15.0cm length; 21.0mm diameter
Pen Body Weight	55g (exclude battery)
Extendable Pointer Length	36 cm, extendable up to 65cm
Extendable Pointer Weight	50g

### Stylus E-Pen (Optional)

Light Emitted	Infrared
Pen Tip Trigger Switch	Omni-direction Pressure Sensing
Trigger Sensibility	<30g
Control Button	1 button
Battery	battery AAA x 2
Working Power Current	40 -50mA
Pen Body Dimension	17.2cm length; 19.0mm diameter
Weight	55g (exclude battery)

### System Requirements

OS Required	Microsoft Windows 2000/XP/Vista;MAC
CPU	1GHz or above
RAM Size	512 MB or above
Min. Hard Drive Space	100 MB or above

## Package Contents

<b>Acromeeet Interactive Whiteboard System PJ100W</b>	
Signal Receiver	X 1
Adaptor	X 1
Pointer E-Pen	X 1
Extendable Pointer	X 1
USB Cable	X 1
AAA Battery	X 2
AA Battery	X 2
CD	X 1
User Guide	X 1
Warranty	X 1
Network Cable	X 1
Fixed plate	X 1
Thumb Screw	X 4
M4 X 8 Screw	X 3
M4 X 6 Screw	X 2
Short Support Bar	X 2
Long Support Bar	X 2
Stylus E-Pen	X 1 (optional)

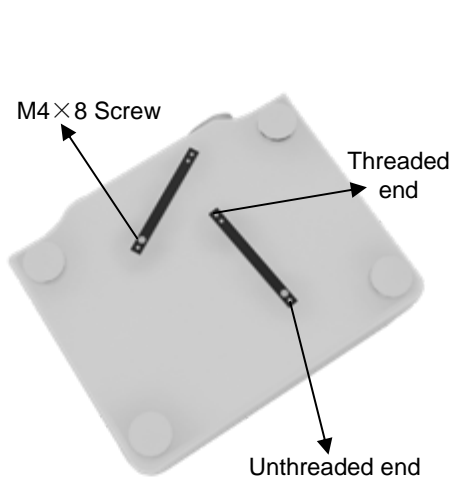


## Assembling the System Parts

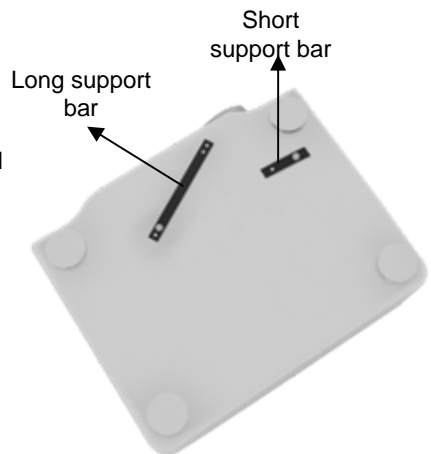
There are two installation methods.

### Method A: Projector Desktop Installation

Step 1: Install two support bars in the ceiling mounting holes of the projector by M4×8 screws with unthreaded end of support bars. Choose long or short support bar according to the position of ceiling mounting holes as shown in Picture1,2.

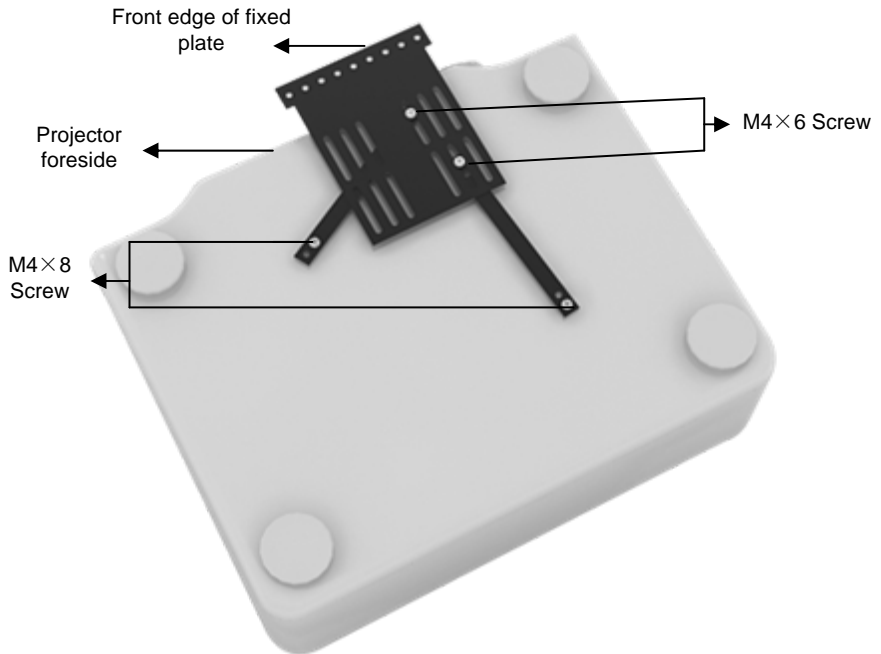


Picture 1



Picture 2

Step 2: Install fixed plate in support bar's upside with M4×6 screws. Do not tighten screws at this time. Adjust fixed plate to make sure the front edge of fixed plate in parallel with projector foreside and be close to projector lenses shown as in Picture 3.

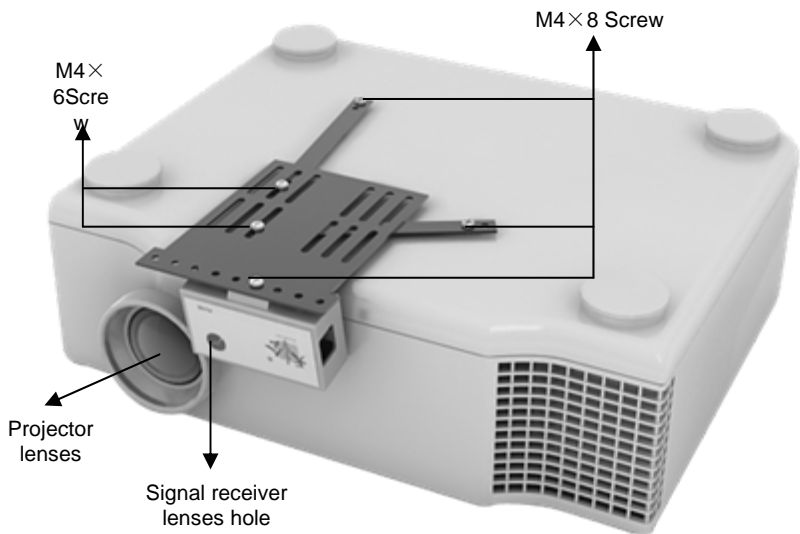


**Picture 3**

(Remarks: make sure the fixed plate do not block the thermal via of projector.)

Step 3: Install signal receiver on fixed plate with  $M4 \times 6$ , then adjust signal receiver and fixed plate position so that the upper edge of signal receiver clings to projector foreside and signal receiver lenses hole is close to projector lenses. After finishing adjusting position, fix signal receiver and fixed plate. (Picture 4)

(Remarks: make sure signal receiver do not block projector lenses.)

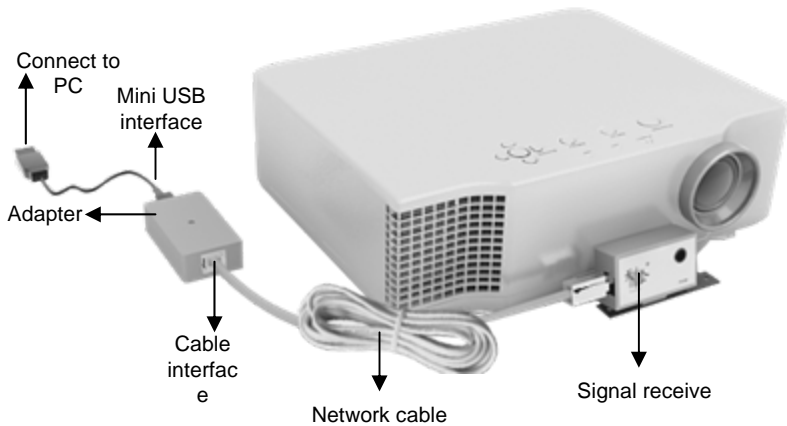


Picture 4

Step 4: Put AA batteries into pointer e-pen. Press button on pen body to operate it.

Step 5: Connect one end of network cable with signal receiver, another end with adapter.

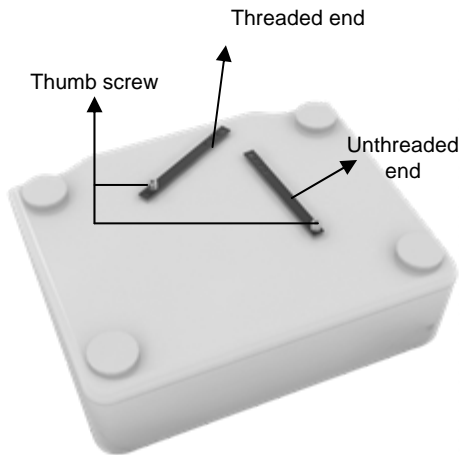
Step 6: Connect mini end of USB cable with adapter, another end with computer.( Picture5)



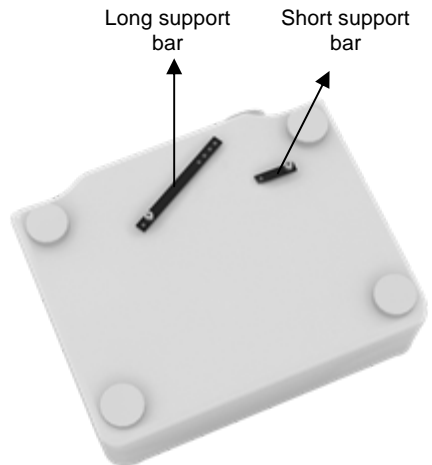
**Picture 5**

## Method B: projector ceiling mounting installation

Step 1: Install two support bars in ceiling mounting holes on bottom of projector by thumb screws with unthreaded end of support bars. Choose long or short support bar according to the position of ceiling mounting holes. For projector ceiling mounting installation, you can use screw hole on thumb screw. (Picture6, 7)



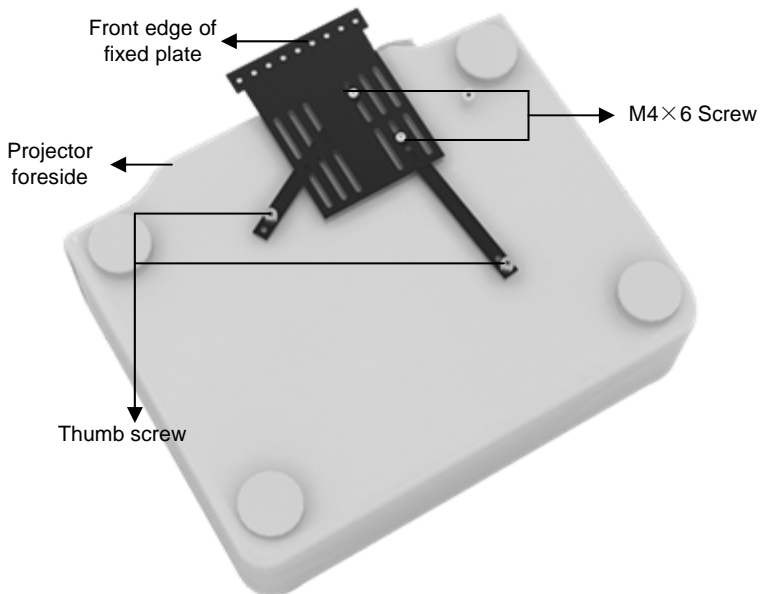
Picture 6



Picture 7

Step 2: Install fixed plate in support bar's upside with M4×6 screws. Do not tighten screws at this time. Adjust fixed plate to make sure the front edge of fixed plate in parallel with projector foreside and be close to projector lenses as shown in Picture 8.

(Remarks: make sure the fixed plate do not block the thermal via of projector.)

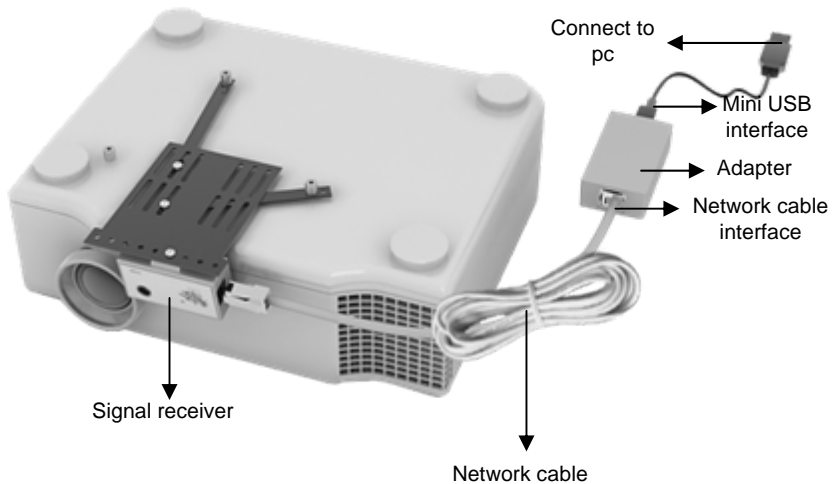


Picture 8

Step 4: Put AA batteries into pointer e-pen. Press button on pen body to operate it.

Step 5: Connect one end of network cable with signal receiver, another end with adapter.

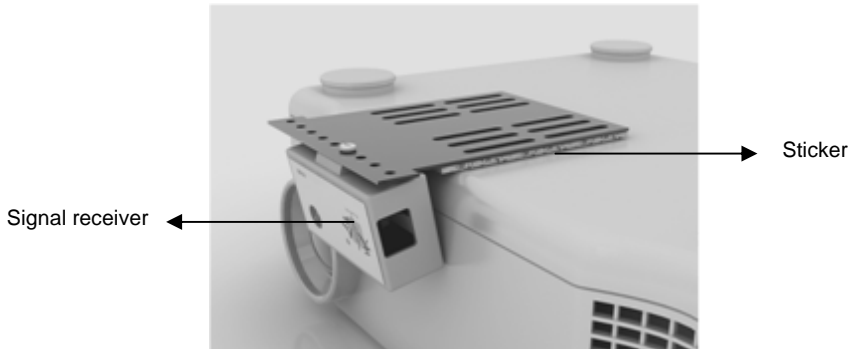
Step 6: Connect mini end of USB cable with adapter, another end with computer.( Picture 9)



**Picture 9**

(Remarks for assembling system parts: if projector bottom is uneven or can not be installed with support bars, you can glue the fixed plate on bottom of projector. )

Remarks for assembling system parts: if projector bottom is uneven or can not be installed with support bars, you can glue the fixed plate on bottom of projector.

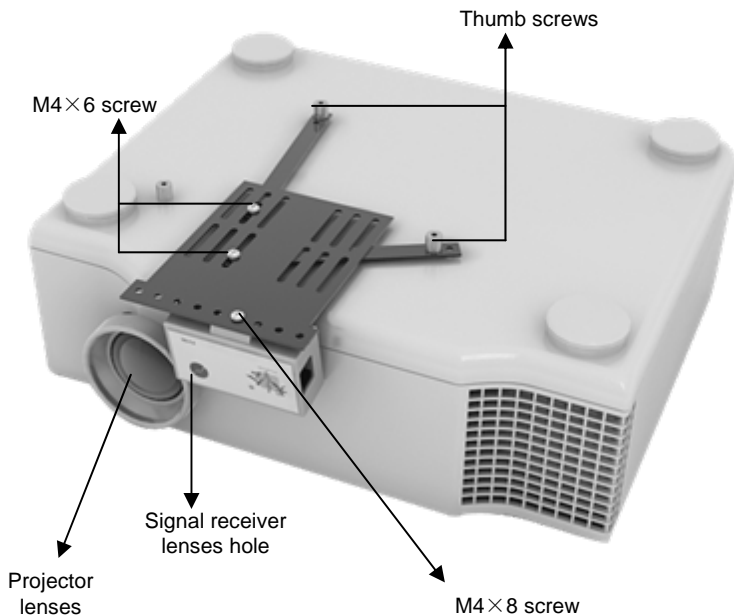


**Picture 10**



Step 3: Install signal receiver on fixed plate with M4×6, then adjust signal receiver and fixed plate position so that the upper edge of signal receiver clings to projector foreside and signal receiver lenses hole is close to projector lenses. After finishing adjusting position, fix signal receiver and fixed plate. (Picture 11)

(Remarks: make sure the fixed plate do not block the thermal via of projector.)



Picture 11

# Installation of Acromeeet Software

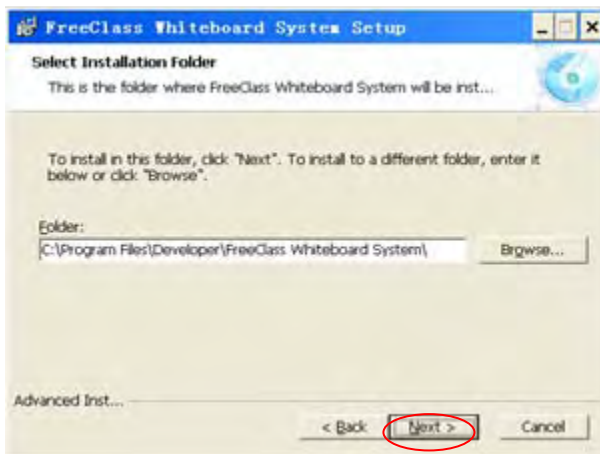
## 1. Installation of FreeClass Interactive Whiteboard System Software

Insert the program CD-Rom into the computer's CD drive. The following window will appear automatically. If the CD does not automatically play, double click the 'Setup' file from the CD drive directory for manual installation.



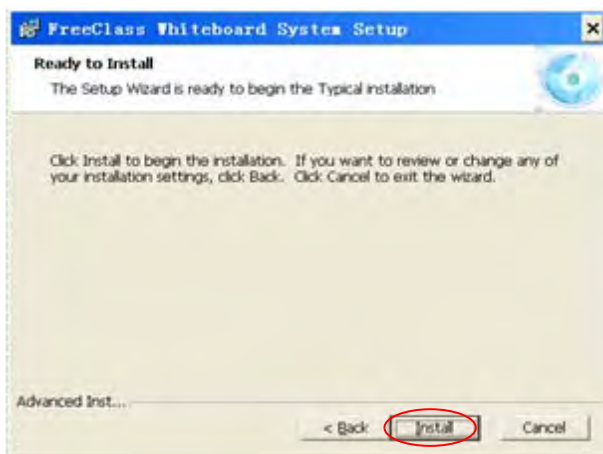
Picture 1

Click 'Next' to continue the installation.



Picture 2

Select the folder where Frentec FreeClass will be installed, then click 'Next' to continue the installation.



Picture 3




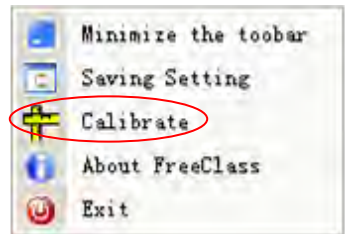
Picture 4

(Remarks: The image procedure dePictureded above is based on Windows XP)

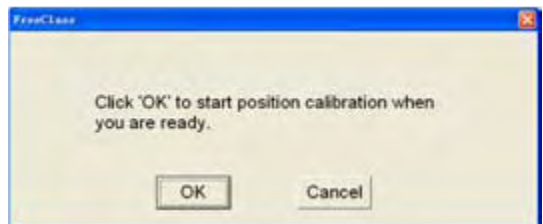
## Position Calibration

1. Position calibration is necessary for the first use of Acromet or when calibration is not accurate in subsequent use. Check the reception range of signal receiver before executing position calibration.  
( for details, refer to signal receiver installation)

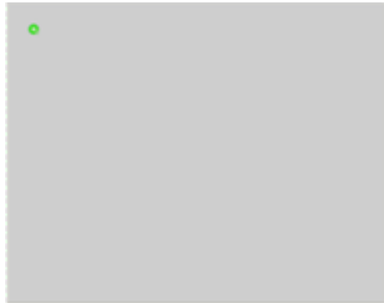
2. Click or right click on icon  in system tray to pop up menu, click “calibrate” to enter position calibration procedure.



3. Click “OK” to enter position calibration interface.



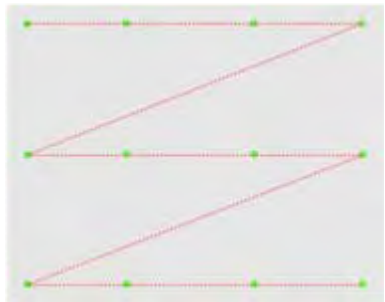
4. After pressing "OK " button, a green dot will appear on top left corner of the screen. It indicates the start of position calibration.



5. Position e-pen's pen tip at the center of the green dot and press the button on pen body for about 0.5 second until the green dot turns black. This indicates calibration of this sampling point has been completed.



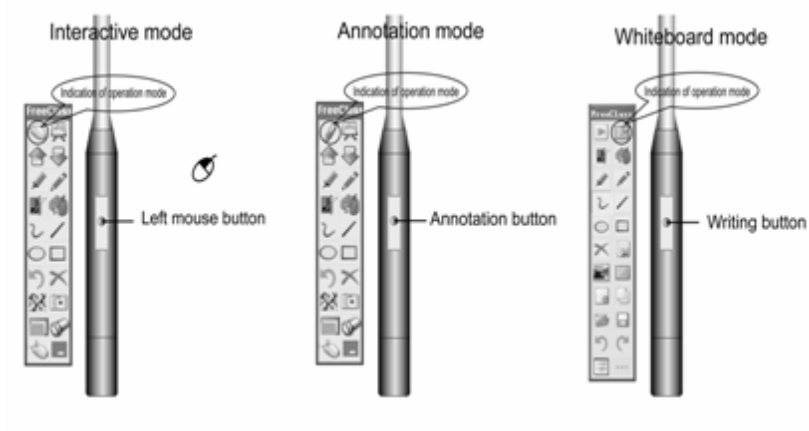
6. Repeat step 5 until all the 12 green dots turn black.






7. Then you will hear a prompt tone when all the green dots turn black, this indicates the completion of position calibration and system reconfiguration. The Acromeet is ready.


## Introduction of E-Pen

The Frentec E-Pen is designed for operational function (normally the E-Pen's pen tip functions as the left mouse button).



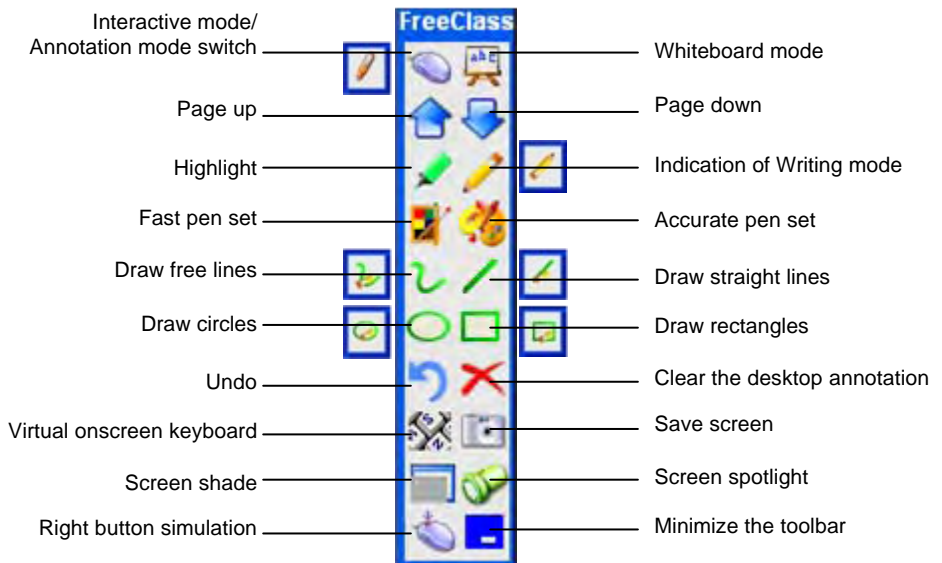
## Introduction of Software

The FreeClass program is a software coordinating with Acromet interactive whiteboard. There are three working mode in this software: the Interactive mode ' , Annotation mode ' , and Whiteboard mode ' 

1. Abounding e-pen and eraser styles, quick and accurate e-pen attribute settings, conventional geometric drawing improves teaching presentation.
2. Interactive mode: the E-Pen functions exactly as a mouse on the projection screen with functions like double click, single click, drag and drop. To implement right click function with operational (left) button, click at Right button simulation ' 20

## Acromeeet Program Function Keys

### Interactive Mode / Annotation Mode







Interactive mode: E-Pen functions exactly as a mouse. Click on this icon to enter Annotation mode.



Annotation mode: E-Pen can be used to write, draw and annotate anywhere on the screen. Click on this icon to enter Interactive mode.



Whiteboard mode: click on this icon to enter Whiteboard mode. The screen instantly transforms into an interactive whiteboard/flipchart page.



Page up: go to previous page in an opened document file. It is applicable under Interactive mode and Annotation mode.



Page down: go to next page in an opened document file.



Indication of Writing mode.



Indication of Rubber mode.



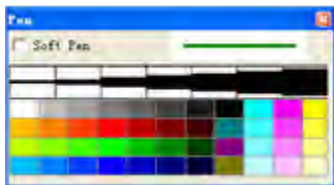
Under Rubber Mode, different rubber modes can be selected as shown:



Highlight: write and annotate with highlight pen effect.



Fast pen set: choose pen color, line width and soft pen in fast way.



Accurate pen set: choose pen color, pen width and soft pen in accurate way.



Draw free lines: write and annotate free on the screen.



Draw straight lines.



Draw circles.



Draw rectangles.



Free rubber.



Straight line rubber: erase the straight line area contents.



Circle rubber: erase the circled area contents.



Rectangle rubber: erase the rectangle area contents.



Undo: cancel the last annotation or erase operation.



Clear the desktop annotation: clear all desktop annotation and writing contents. Contents cannot be recovered after screen is cleared.



Virtual onscreen keyboard.



Save screen: capture current screen and save as an image file.



Screen shade: use to cover up the screen, the shade area and direction is free to change anytime.



Screen spotlight: emphasize page content with spotlight effect – color and transparency outside the spotlight zone are customizable.

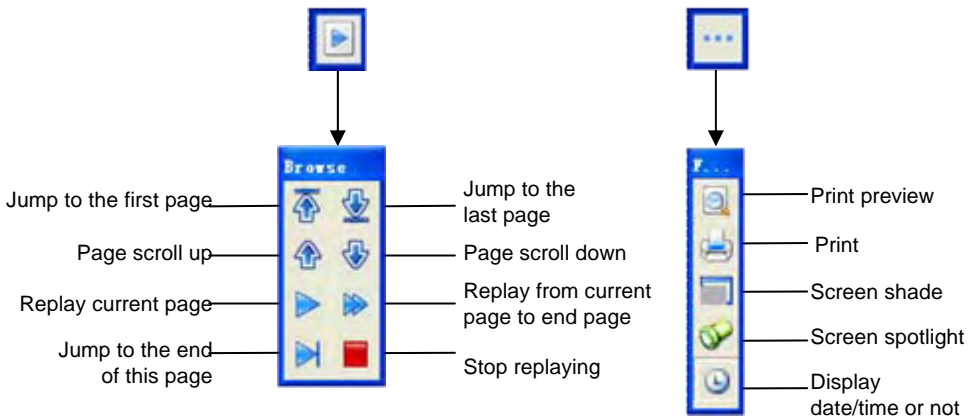
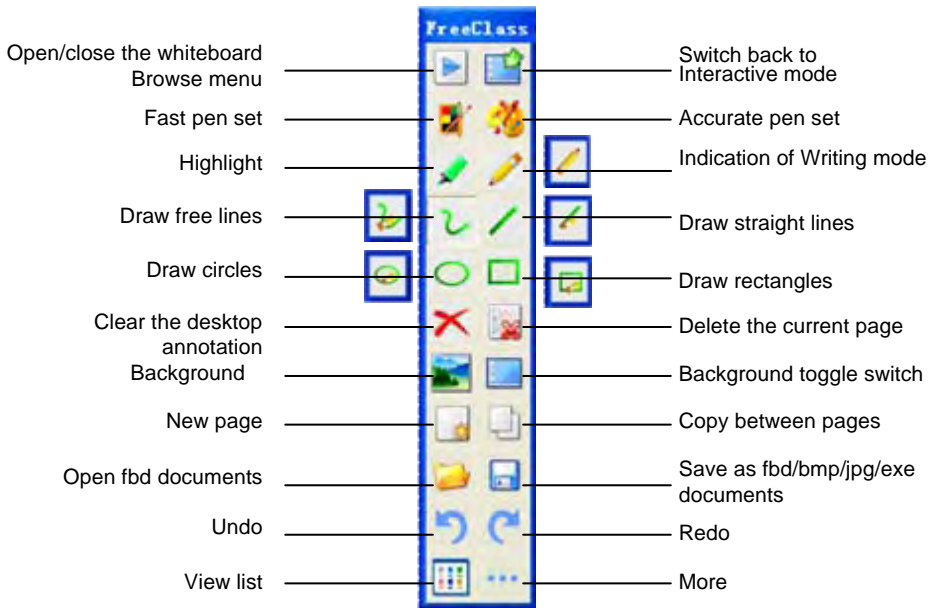


Right button simulation: the operational button of the E-Pen is defaulted as the left mouse button under Interactive mode. Use E-Pen to click at the 'Right button simulation' to switch the operational button to right click instead. E-Pen automatically returns to default mode after the right click action and the 'Right button simulation' icon will pop up again.



Minimize the toolbar.

## Whiteboard Mode





Open/close the whiteboard Browse menu.



Switch back to Interactive mode.



Fast pen set: choose pen color, line width and soft pen in fast way.



Accurate pen set: choose pen color, pen width and soft pen in accurate way.



Highlight: write and annotate with highlight pen effect.



Indication of Writing mode.



Draw free lines: write and annotate free on the screen.



Draw straight lines.



Draw circles.



Draw rectangles.



Indication of Rubber mode. Under Rubber Mode, different rubber modes can be selected as shown:



Free rubber.



Straight line rubber: erase the straight line area contents.



Circle rubber: erase the circled area contents.



Rectangle rubber: erase the rectangle area contents.



Clear the desktop annotation: clear all desktop annotation and writing contents. Contents cannot be recovered after screen is cleared.



Delete the current page.



Background: insert any Picture as whiteboard background.



Background toggle switch: click to change the whiteboard background to current desktop background or preset color or patterns.



New page: create a new page on whiteboard.



Copy between pages: copy writing contents from previously displayed page to current page.



Open fbd documents: open previously saved as 'fbd' format whiteboard document.



Save documents: save the whiteboard document in different file formats: fbd, exe, bmp, jpg. The fbd file is standard format of FreeClass. The exe file can be self-executed independently without running FreeClass.



Undo: cancel the last annotation or erase operation.



Redo.



View list.



More.



Screen shade.



Screen spotlight.



Print preview.



Print.



Display the page stamp (the page created date/time), you can select display or not.





Jump to the first page.



Jump to the last page.



Whiteboard page scroll up.



Whiteboard page scroll down.



Replay current page.



Replay from current page to end page.



Jump to the end of this page.



Stop replaying.

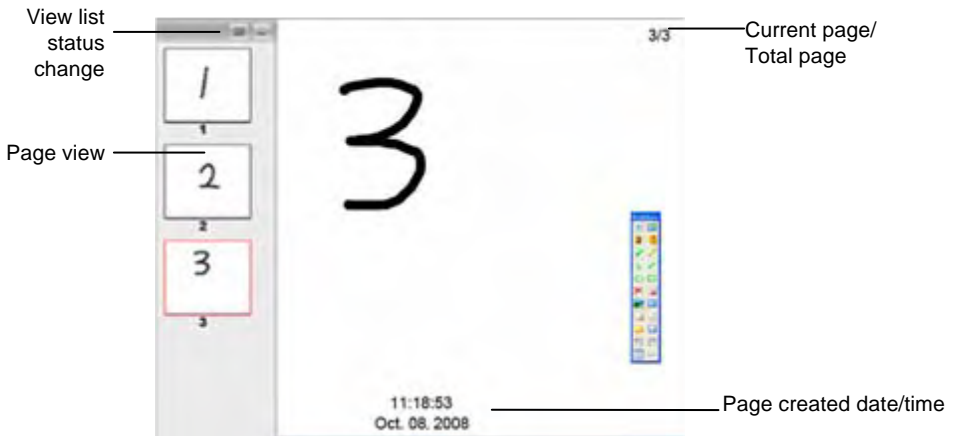
## View List

View list provides a quick browse to the multiple page contents. It is also easy to jump to the destination page of the document by using view list.

View list provides two display modes: non-transparency mode and semi-transparency mode.

Non-transparency mode: view list window will hide automatically;

Semi-transparency mode: writing area is visible under the view list.



Semi-transparency: View list is changed to semi-transparency. Writing area is visible under view list, E-Pen can write into the view list without blockage.



Non-transparency: View list is changed to non-transparency. When E-Pen move to the view list, it will hide automatically. View list will display again when E-Pen leaves.



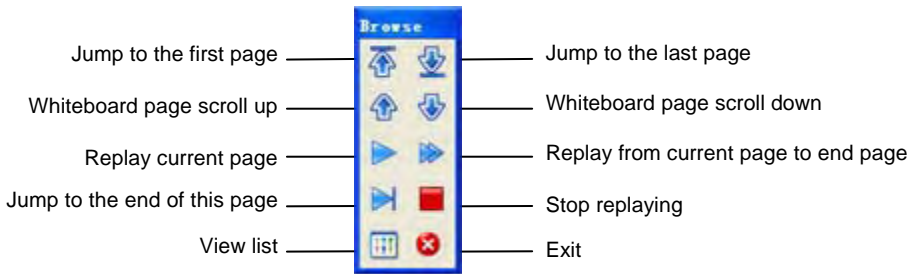
Minimize.




Resume.

## Save as EXE File

Whiteboard document saved in exe file can be executed independently without running FreeClass. Just double click on exe file created by whiteboard document to open it. This document doesn't include editable function, it only can be replayed. The replay function is the same as the function in FreeClass whiteboard mode.



## Acromet System Tray Menu

After running FreeClass program, an icon '  'can be found on the system tray toolbar, click or right click the icon, a menu will pop up as below:



Minimize the toolbar.



Saving Setting: select file saving path and the format of screen capturing.



Calibrate: refer to position calibration.



About: FreeClass info, connection status and system hardware's serial numbers HSN.



Exit

## Screen Shade

Screen shade: use to cover up the screen, the shade area and direction are free to change anytime. Use the E-Pen to drag at vertical or horizontal direction, and the direction icon will

be highlight as ' 

One moving direction is valid at the same time.



## Screen Spotlight

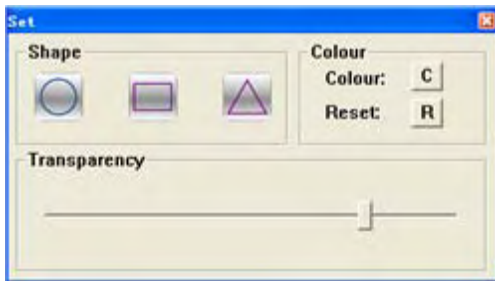
Screen spotlight: emphasize page content with spotlight effect – color and transparency outside the spotlight zone are customizable.





Close spotlight.




Spotlight setting. Click on the icon and the menu pop up as below:



Click at Shape '  ', '  ', '  ' to select spotlight shade.

Click at Color '  ', to change spotlight background color. '  ' Reset spotlight.

Drag at Transparency '  ' to change the spotlight background transparency.

Drag at the spotlight background to move the spotlight. Drag at the spotlight side to change the spotlight size.

## Appendix

### FAQs

#### **Q: I have received the error message 'hardware device not found'**

A: The reason for 'hardware device not found' while the FreeClass program is being activated may be one of the following:

1. Connection cable is not connected properly.

Inspect the connection cable to make sure it is connected properly. There is a red power indicator light on the Frentec receiver.

2. Some anti-virus software or programs may block the use of USB or serial port.

Make sure no such software or program is activated. If yes, close all such programs and restart the FreeClass program.

3. Defect on PC's USB port.

Check if the PC's USB port and the setting are functioning properly. Call a qualified engineer to repair in case of USB defect.

4. When the notebook PC's power runs out, the USB port may stop functioning, causing the USB device not be detected or utilized properly. In this case, the notebook PC should be connected to a power point. The USB port on some notebook PCs may not supply the standard current, the resolution is to use power cable supplied by our company.

#### **Q: No green dot has appeared on the PC screen after the positioning calibration routine has been activated?**

A: This may be due to a number of reasons:

The PC screen is being refreshed continuously. Close all programs that involve screen refresh, e.g. Flash animations, etc.

The green dot will not appear when the signal receiver device is not detected by the PC. Check the device connection and restart the program.

**Q: The first green dot has not turned black in the process of positioning calibration?**

A: First check if the indication light on the signal receiver is flashing continuously, if yes, that means the signal receiver is disturbing by a light source. Try to eliminating disturbing light. Alternatively, it may be due to improper installation position of the signal receiver causing no signal is received. For this circumstance, the receiver needs to be reinstalled.

**Q: The green dot has turned black automatically?**

A: This may be due to ambient lighting disturbance. Adjust the position of the signal receiver or remove the lighting source.

**Q: The E-Pen does not appear to be responding when in operation?**

- A:
1. The signal path from the signal receiver may be blocked by the user. Avoid blocking the signal path when working on the projection screen.
  2. The E-Pen has run out of battery.
  3. Disturbance by strong ambient lighting.
  4. Device not connected properly.

**Q: The annotation lines appear jagged in real-time writing?**

- A:
1. The E-Pen is being used at a distance too far from the projection surface.
  2. The E-Pen is running out of battery.

**Q: How can you judge if there is ambient lighting disturbance?**

A: There is a red indication light on the top of the signal receiver. This indication light will be stable when there is no optical signal communicated from the E-Pen. When the receiver detects optical signals, it will flash. If there is no optical signal being transmitted from the E-Pen and the indication light keeps flashing, that means there is ambient lighting disturbance. In the case of positioning calibration failure, cursor fluctuating or unpredictable lines appearing, check the indication light on the signal receiver first. One simple way to find out the cause is to cover the front panel of the signal receiver with your hand. The indication light should stop flashing. This indicates the device is functioning properly. The signal reception failure is due to ambient disturbance. Otherwise, the device may be defective. Seek help with product distributors or resellers.



**Q: The E-Pen does not function after the PC enters standby or sleep mode?**

A: When the PC enters standby or sleep mode, the signal communication between the PC and the signal receiver is terminated. Quit the program and restart the program again to resume normal functionality.

**Q: The position of the mouse cursor is not accurate?**

A: This can be due to the following:

1. Positioning calibration is not accurate.
2. The position of the signal receiver or the projector has been changed.
3. The screen display resolution has been changed.

Recalibration or restart of the system is required.

**Q: The cursor jumps significantly?**

A: If the cursor jumps up and down significantly, check whether there is strong light (generally refers to the sun) raying on the screen.

**Q: The installation of software cant been finished?**

A: (1)The reason may be the system protection (e.g. the registration table), nothing to do with the installation procedure itself. The resolution is to remove system protection. Some viruses can cause this problem ,the system needs anti virus.

(2)Windows Installer is not installed properly or Windows Installer service is not activated.

**Q: The e-pen doesn't light or sometimes lights or sometimes not?**

A: (1)Need to replace the battery.

(2)Check whether the connection of the extendable pointer is good.

## Important Notes

The Frentec E-Pen functions via optical signals. It is important to make sure there is no strong light (e.g. sunlight) on the projection screen and the reception panel of the signal receiver when using the system.

Signal communication can be abnormal when the USB cable is too long and over the communication standard. Use an USB with power source or an USB adapter with power source and connect to an extension USB cable instead.

## Mac Os x System



## Installation of FreeClass for MAC

Insert the program CD-Rom into the computer's CD drive. The following window will appear automatically (Picture 1 – 5). If the CD does not automatically play, double click the "Frentec FreeClass" file from the CD drive directory for manual installation.



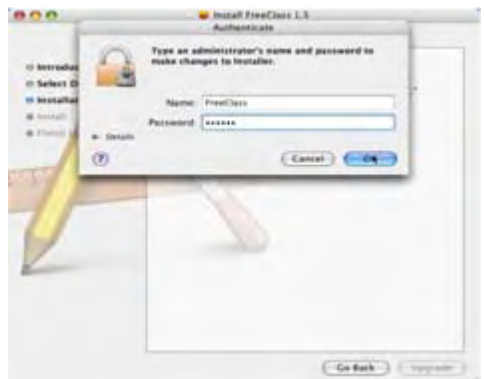
Picture1



Picture2



Picture3



Picture4



**Picture 5**

Now, the software installation is completed. The files have been installed in the 'Application' document folder, there are 5 files as showed in Picture 6.

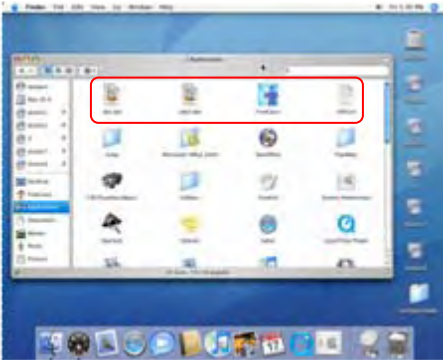
The program running status will be recorded in the abc.dat and abc0.dat. If there have any problems during running, please submit it to product distributors or resellers for help.



**Picture 6**

## Run of FreeClass for MAC

Make sure the signal receiver is connected before you run the program. Open the 'Application' document folder, find the 'FreeClass' file, double click 'FreeClass' button. Wait for several seconds, a 'FreeClass Panel' window will appear.



Picture 1



Picture 2

## Position Calibration

After the first installation at a new position you will need to do calibration. Click at 'Calibrate' button, follow the instructions to finish the steps. After the calibration is finished, the cursor will move to the center of the screen, you are now ready to use the E-Pen to write or click ...



Picture 1



Picture 2



Picture 3



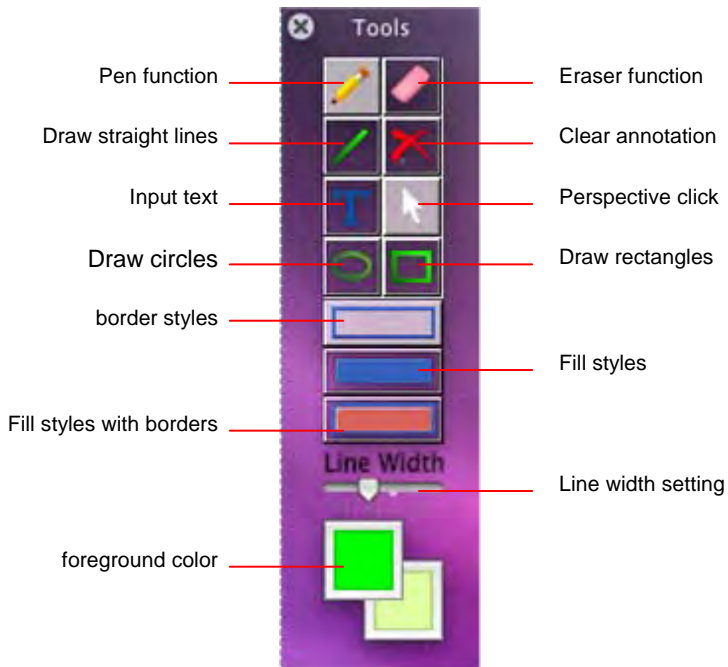
Picture 4

For a brief instruction, you may click the “about” button.

## About Freeboard Program

FreeBoard program is a graphical indicator program of Acromeet whiteboard system. It offers annotating function on PowerPoint, documents and forms without effecting previous documents. It can switch to whiteboard mode further more, you can write your lectures on it. With the perspective click function, you can edit the documents or operate other programs when it is activated.

## Instruction of Tool Bar Button Functions







Pen function: a default setting when being activated, pen can be used to write anywhere on the screen.



Eraser function: erase the drawing on the screen.



Draw straight line.



Clear the desktop annotation: clear all desktop annotation and writing contents.



After clicking this button, click anywhere to pop up a text input dialog box, edit contents in the box, after finishing editing click "input" button then it can be inputted.



Perspective click button: click the button, the window becomes perspective, mouse can operate on lower window passing through upper window. To back to the non-perspective state, click the button again.



Draw circles.



Draw rectangles.



Border style: this is a default setting, under this setting the circles or rectangles drawn only have one border.



Fill style: under this setting, the circles or rectangles drawn are solid by fill color.



Fill style with border: under this setting, the circles or rectangles drawn have borders with fill color inside.



Set lines width: set the width of pencil, eraser, straight line, circles and rectangles



Set foreground color and fill color: set foreground color: the corresponding color of pencil, eraser, border of rectangles and circles is foreground color. It can be set by the color well on upper left. After setting one color, the switch between tools( e.g. pencil, straight line etc) cant change the foreground color. Set fill color: the fill color of rectangles and circles under fill styles and fill styles with borders can be set by color well on lower right. the switch between tools cant change the fill color too.

# Introduction of Menu Function

## Undo and recover

Select “edit→undo” in menu, undo the operation back to previous step until the contents are cleared. Select “edit→recover”, recover the operation to next step until the last step of operation.

## Whiteboard mode and transparent mode

Transparent mode: After the program being activated, the default mode is transparent mode. Under this mode, the background of the window is transparent, the content written or drawn on the window just like annotation on document behind the window. To operate document, click perspective click button, then you can operate the contents on document behind window. To switch whiteboard mode to this mode, select “form →transparent background”.

Whiteboard mode: It means to use white background. Select “form→ white background” in menu to switch to this mode. Under this mode, click perspective button, the window becomes transparent window, click again to back to whiteboard mode.

## Hide/show toolbar

Toolbar is a high priority panel always in a front-end display, even switch to other program, it is still displayed on the top of other windows to use freeboard program quickly. To hide toolbar when other program is active, select “hide other program” or right click freeboard program icon in Dock and select “hide” in popped up menu. To use FreeBoard program quickly, it is only need to click anywhere or button on toolbar.

The way to hide and show toolbar is as follow:

Hide toolbar: click close button on top left of toolbar or select “window hide →toolbar” in menu.

Show toolbar: select “show toolbar in window” in menu.

## Highlight pen

Select “form →highlight pen” in menu to use highlight pen to draw Pictures. A highlight pen is a transparent pen, after selecting highlight pen mode, the Picture drawn by pencil, straight line, circle and rectangle in any color is semi-transparent.

## Set font style and color

Under text input mode, select “form→ font→ show font”( keyboard shortcuts is “command+T” )in menu, then font panel pops up, select font style and set font color. Other setting like bold, italic, zoom in, zoom out, underline can be set in menu “form →font” or can be set directly by corresponding keyboard shortcuts.

## FCC STATEMENT

- 1. 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.
  - (2) This device must accept any interference received, including interference that may cause undesired operation.
- 2. 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.



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