

USER GUIDE

MODEL **LB77HA** INTERACTIVE WHITE BOARD



Information in this Guide may change due to product improvements. To obtain the latest manuals, literature, and software please visit the Dukane web site at; www.dukcorp.com/av and look at the specific model SUPPORT or DOWNLOADS section.

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Legends



Instruction: additional information about the software



Note: the issues which may occur during your using the board and how to resolve or avoid them.



Warning: Harm may occur in the course of using, or damage to the product may occur due to the improper use of the product.



- To avoid electric shock, please do not install the interactive whiteboard in very humid locations!
- After the interactive whiteboard is installed, do not touch the pins of its power cable or data cable!
- Keep the interactive whiteboard away from fire, smoke, and direct sunlight!
- After the interactive whiteboard is installed, make sure the whiteboard is firmly secured!



When the interactive whiteboard is used together with a projector, do not look directly into the light coming from the projector.



Important note

- Only the erasable interactive whiteboards can be written on with color pens (including normal whiteboard markers of the nonpermanent type). For other types of boards use only the electronic pens.
- For Dual-pen operation, use both pens simultaneously.
- Please make sure the whiteboard is correctly connected to the computer. It is preferable that the connection and power cables be hidden so the wiring can not be damaged.



General note

- Do not scratch the surface or frame of the board with sharp or hard objects.
- The environment around the board must contain no intense magnetic fields. If a nearby wall is made of metal and has magnetic properties, there should be a 10 ft. distance between the whiteboard and wall.
- When writing on the board with the electronic pen, please keep the pen vertical to the board and write lightly.

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St Charles, IL 60174	1
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Introduction

Brief Introduction

Thank you for purchasing the Dukane interactive whiteboard. Please think of the board as a wall sized mouse pad with special software.

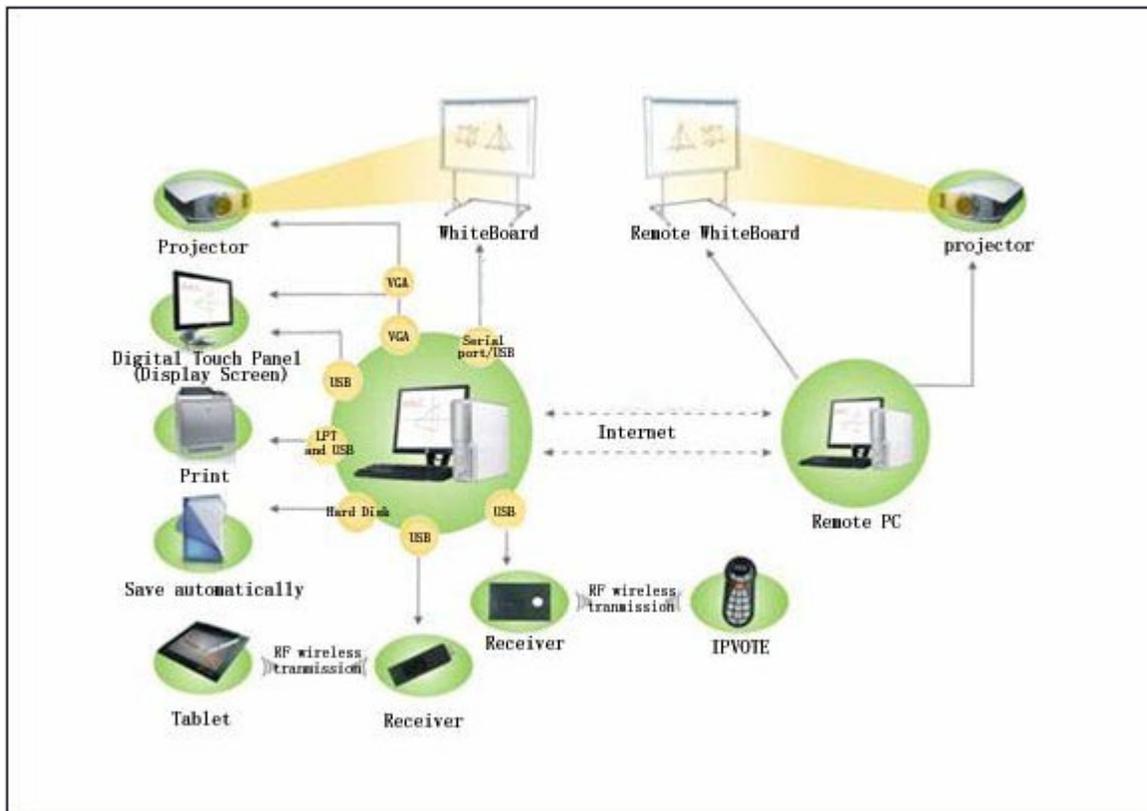
As part of a new generation of digital educational devices, the interactive whiteboard is a combination of electronic and software technology.

The Interactive Whiteboard is a computer -based input device, which, when connected with a projector and computer, can perform functions such as writing, notation, drawing graphics, editing, printing and storing images. The Interactive whiteboard is becoming a major component for teaching, meetings, distance learning, and information exchange.

Features

- It can create an interactive environment for teaching and demonstrations when connected to a computer and projector while using the proper software.
- The electronic pen can operate your computer instead of a mouse.
- Using the electronic pen, you can write, mark, erase, copy, clone, replay, and save files.
- The software provides functions such as magnifying, editing, searchlight focus, replaying, calligraphy effect, camera, screen reveal, and other customized templates.
- It also features a high tracking accuracy, quick response and sensitive operation. The advanced processing algorithm adopted in this device results much better response speed and the operation sensitivity compared to pressure sensitive and infrared-ultrasonic whiteboard
- It also provides a rugged, good light reflection surface that permits continual viewing. This long-life board can endure over 10 million pen strokes at the same location.
- It has a high precision pen locating system with resolution up to 4096×4096 pixels. You can easily write words, and draw fine line or images.
- It uses an independent Internet Protocol to provide freedom with many formats.

System Diagram



System Requirements

	Minimal configuration	Suggested Configuration
Hardware Configuration	CPU : 1GHz	CPU : 1.7 GHz or more
	RAM : 256 MB	RAM : 512 MB or more
Software configuration	Windows2000, XP、 Vista	Windows2000, XP、 Vista
	Microsoft Internet Explorer 6.0.0	Microsoft Internet Explorer 6.0.0

Unpacking Interactive whiteboard

1、 The interactive whiteboard components:

A set of Interactive whiteboard contains the following components :

- **Interactive whiteboard**



(Color of the product will vary with board model)

2、 Standard Accessories



Standard Accessories include:

Description	Quantity	Purpose	picture
electronic whiteboard pen	2	The pen specially designed for interactive whiteboard, with 1.5 V batteries.	
USB-RS232 connecting cable 10 meters	1	The cables for connecting computer and interactive whiteboard	
IPBoard Dual-Pen Software, Install Disc	1	drive and application software	
Interactive whiteboard User Guide	1	User Guide	
Installation Hanger (Top)	1	For wall mounted installation	
Installation Hanger (bottom)	2	For wall mounted installation	
Gasket	2	For positioning the interactive whiteboard while wall mounted.	

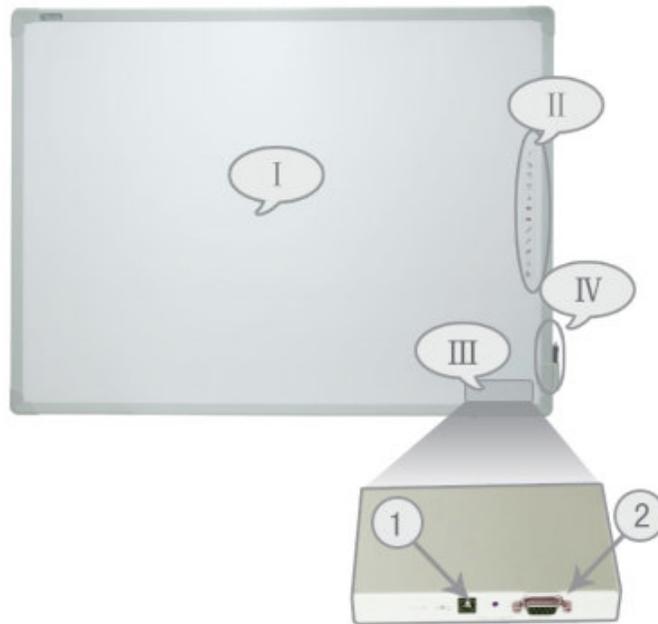
3. Optional Accessories

If the interactive is not installed on a wall, you may use a mobile floor stand. As follows:



Board description

- Whiteboard items :



(Color of the product will vary with model)

I:Writing Area

II:Function keys

III:Interface Board

IV:Pen Container

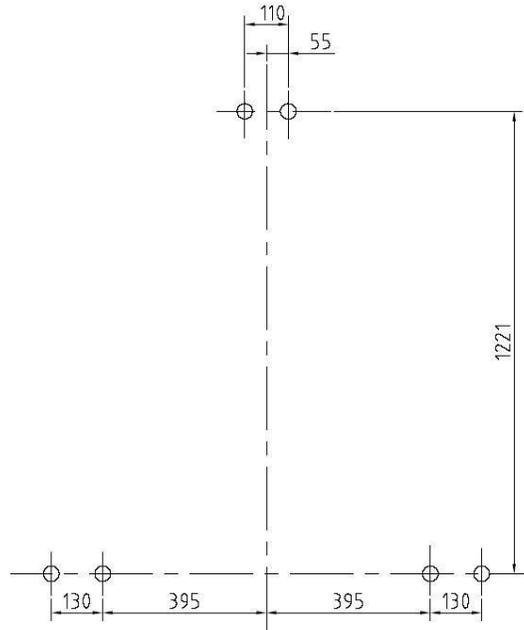
1. Power Socket

2. Serial port

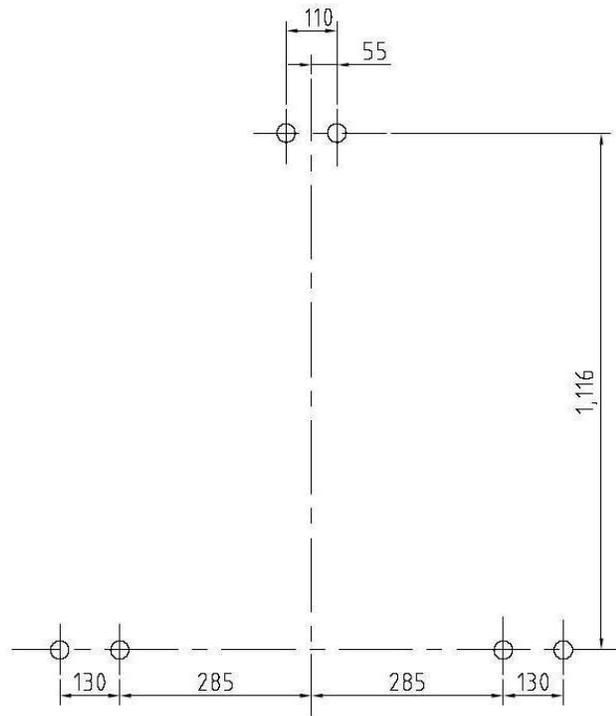
Installation

1、 Install Interactive whiteboard

- Wall Hanging mount
- 1) Select the desired wall surface and attach the hangers on the wall surface at the proper locations for the interactive whiteboard. Note that the following patterns are in mm (1 inch = 25.4 mm).
 - 2) Attach the hangers to the wall according to the following diagrams:

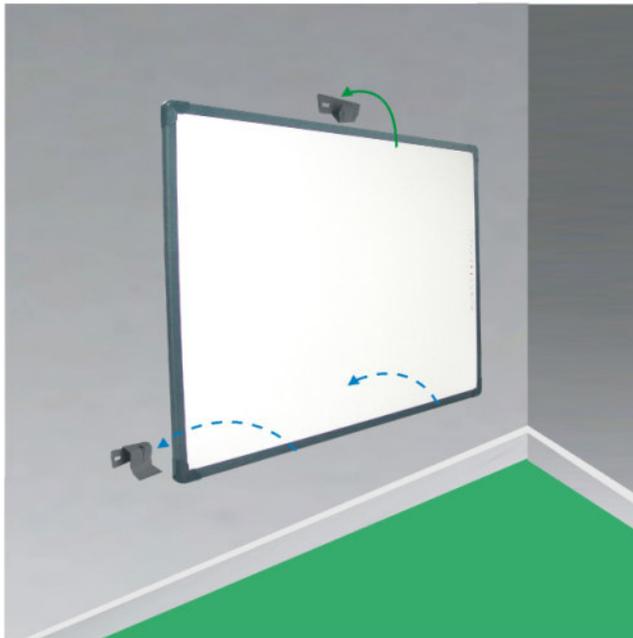
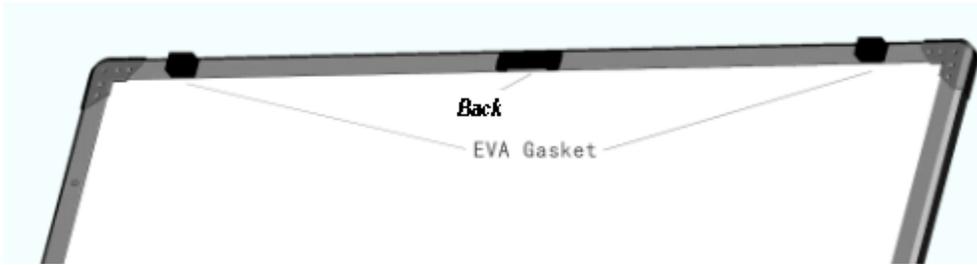


(85-inch Board layout for installation)



(77-inch Board layout for installation)

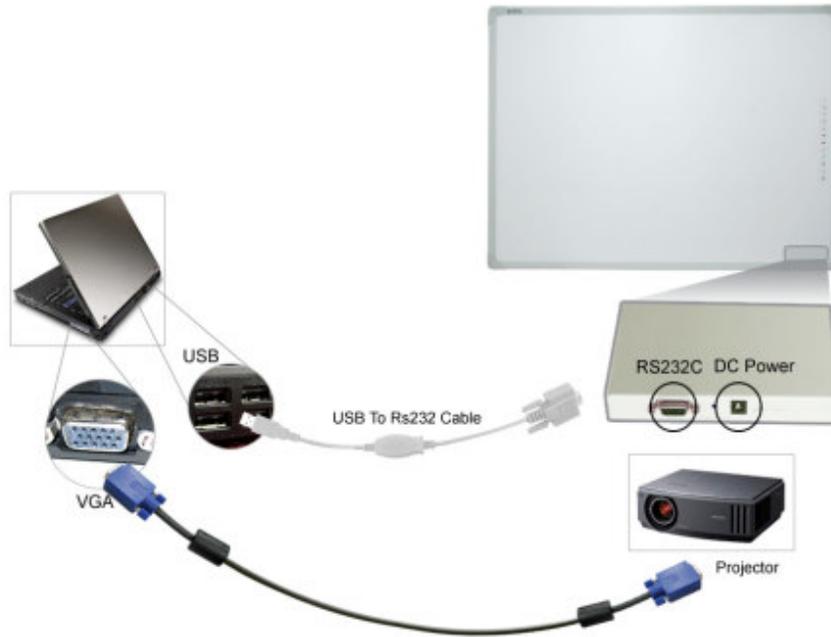
Note: Stick gasket material to the back of the interactive whiteboard, see the figure below.



3) Attach the interactive whiteboard to the fixed wall hangers.

2、 Connect Interactive whiteboard CABLE

- Connect the cable to the board and run the cable to the PC. Do not connect to the PC till the software is installed. The USB cable will supply the DC Power for the board.



- 1) Connect cable to the interactive whiteboard. Install cable run.
- 2) Do not connect interactive whiteboard cable to the PC yet.



The Interactive whiteboard and PC should have their power off when making all connections!!! Except the USB connection after the drivers and software has been installed.

3、 Install Battery of Electronic Pen

Turn the rear cap of the electronic pen counter-clockwise to open it, load one 1.5V battery according to the following figure, then tighten the rear cap clockwise.



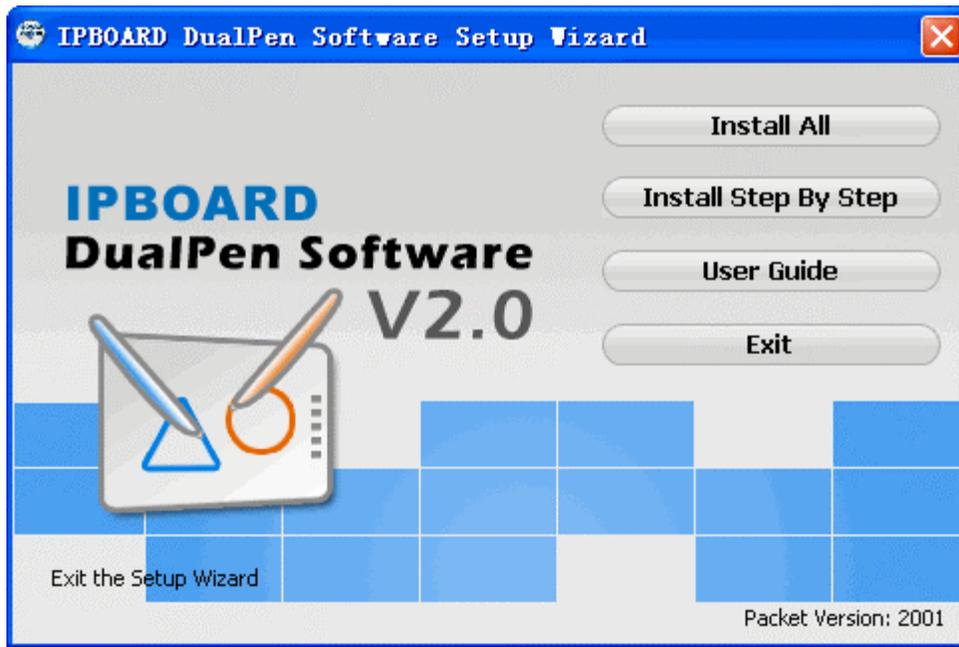
4、 Express Installation of IPBOARD DualPen Software

This installation option is recommended for first time installation of the software.

- 4.1) Insert; IPBOARD DualPen Software CD disc;

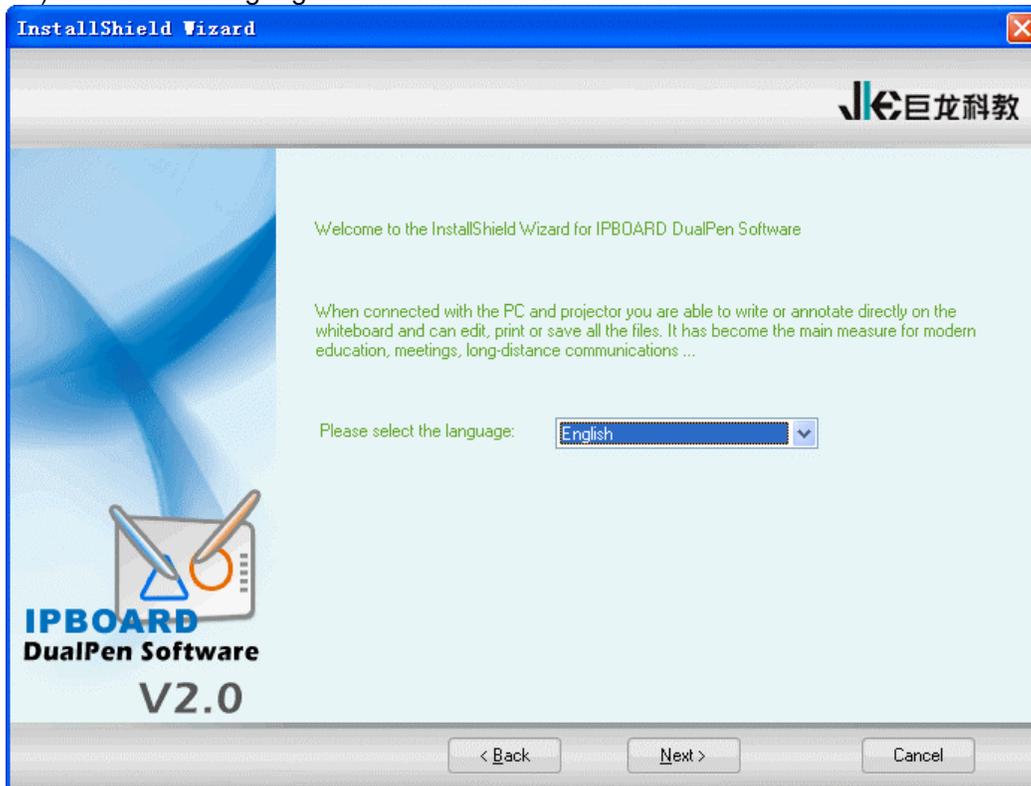


- 4.2) Click on program logo :
- 4.3) Proceed to Installation Guide window.

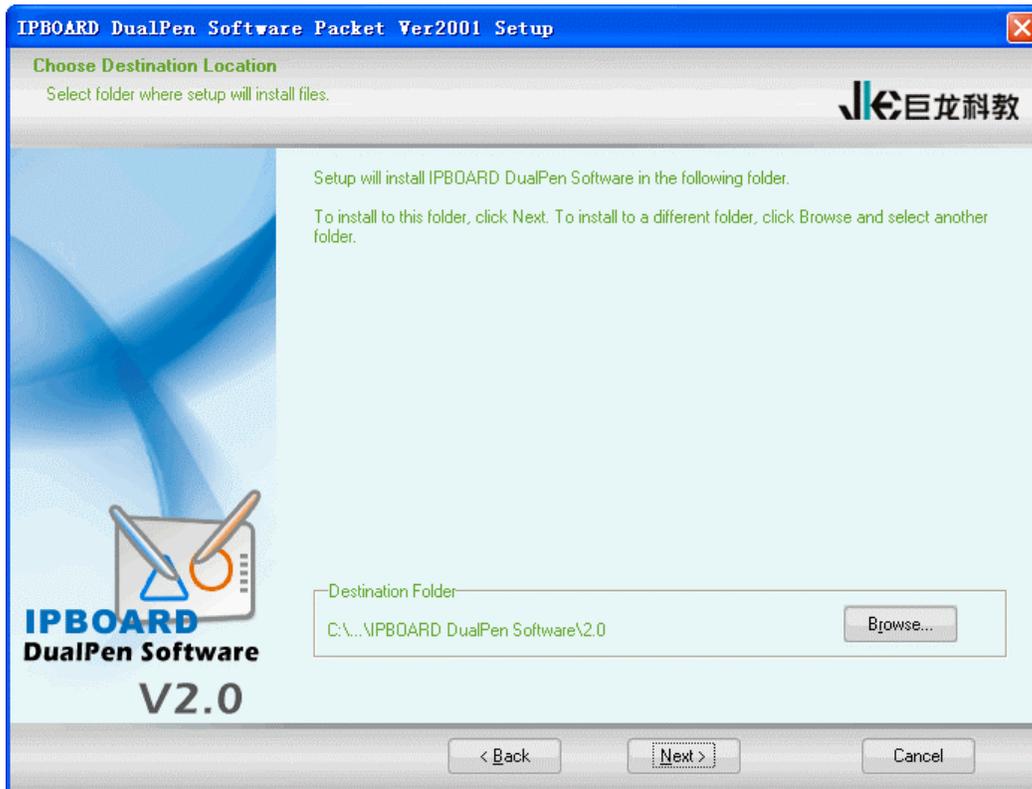


4.4) Click **Install All** to install IPBOARD DualPen Driver and IPBOARD DualPen Software for Interactive whiteboard ;

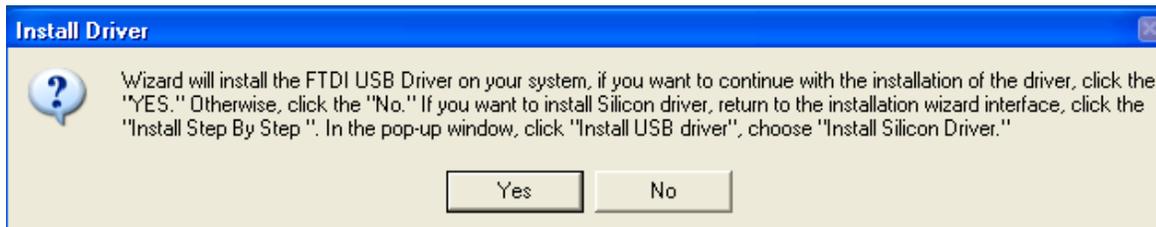
4.5) Choose the language for the installation.



4.6) Select the path for installation.



- 4.7) After the software installation is completed the system will install the USB driver.
- 4.8) If the USB cable provided with the interactive whiteboard is **white**, click “Yes” to complete the installation of the USB driver. If the USB cable is **black**, click “No” and proceed to **Install Step By Step** -> **Install USB Driver** -> **Install Silicon Driver** to install the driver.



- 4.8) After the driver installation is completed **connect the USB cable to the PC** to complete the hookup.



- 4.9) Complete installation.

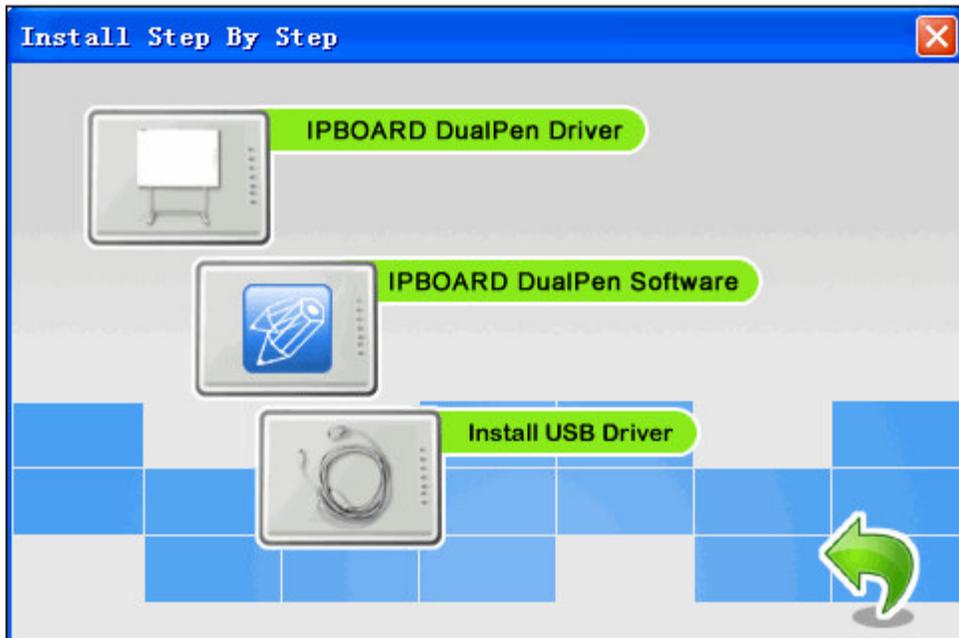


5. Step-by-step Installation of IPBOARD DualPen Software

This installation option is recommended when upgrading IPBOARD DualPen software or replacing the USB cable.

5.1) Follow 4.1) - 4.3) to enter installation guide window.

5.2) Click **Install Step By Step** to install IPBOARD DualPen Driver, IPBOARD DualPen software and USB cable by following the step-by-step guide.

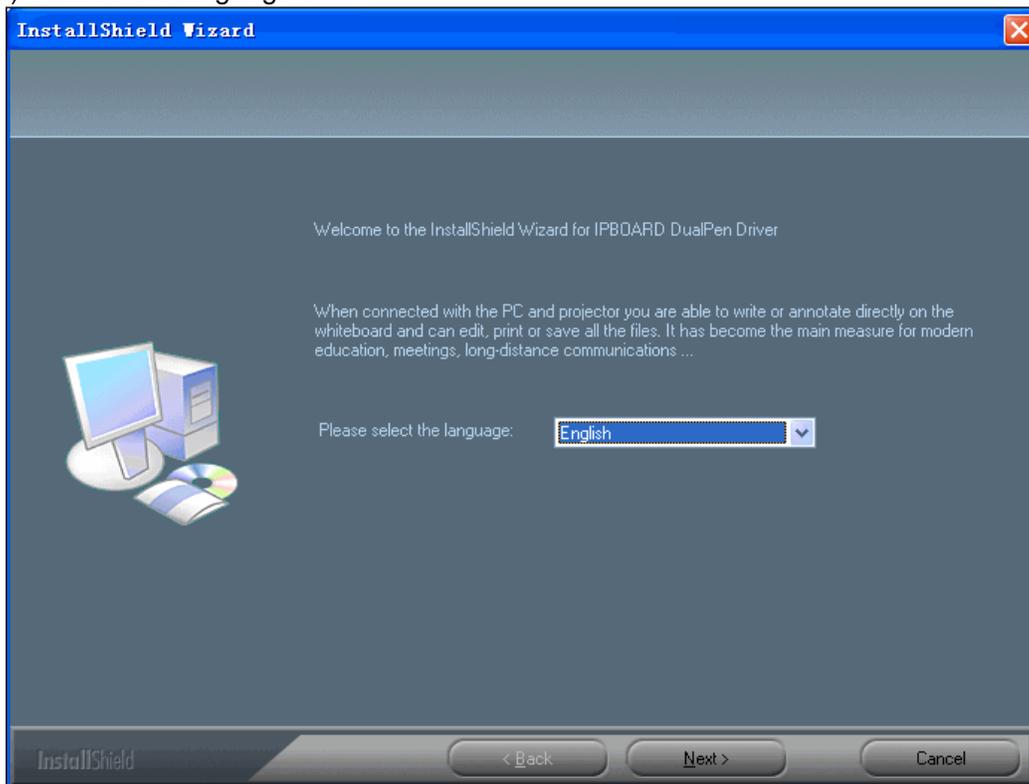


5.3) Install IPBOARD DualPen Driver

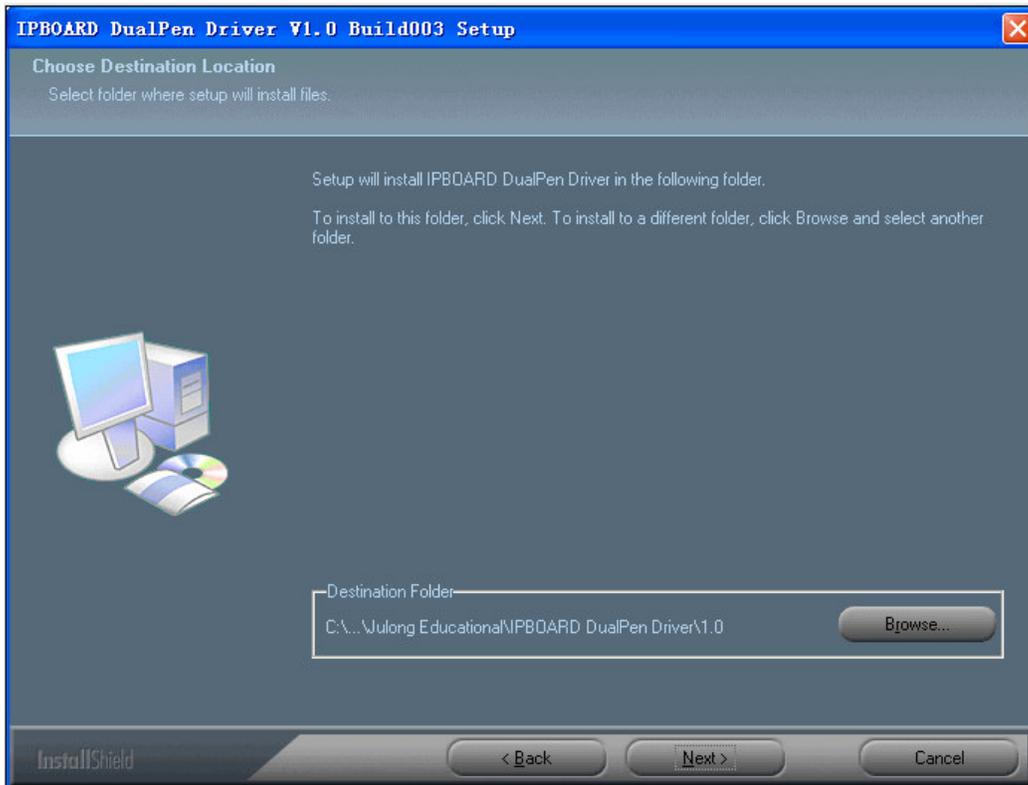


5.3.1) Click  to install **driver** for Interactive Whiteboard ;

5.3.2) Choose the language .



5.3.3) Select the path for installation.



5.3.4) Click NEXT and follow process to complete the installation.



5.4) Install IPBOARD DualPen Software, Click  and follow 4.5) - 4.8) to complete the installation.

6. Install USB - RS232 connection cable Driver

There is no need to repeat this step when using Express Installation. This step is only required when using Step-by-step Installation.



If USB-RS232 connection cable is used, the corresponding driver must be installed.



Click

Install USB Driver

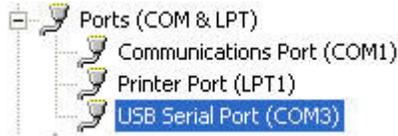
to install the driver for USB-RS232 cable.

6.1) Installation with the **white USB-RS232 cable**

If the USB cable provided with the whiteboard is **white**, click **Install FTDI Driver** to install the driver.



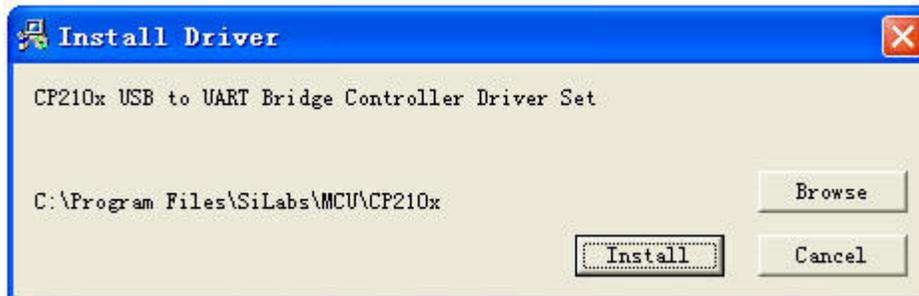
After installing correctly “My Computer” -> “Properties” -> “Hardware” -> “Device Manager” -> “Port” are shown as the device “USB Serial Port”

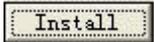


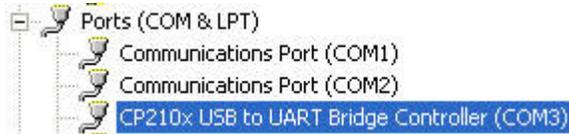
 After installation of USB-RS232 cable is completed, plug-in the USB cable, and to check the COM number of the USB Serial Port in “My Computer” -> “Properties” -> “Hardware” -> “Device Manager” -> “Port” and to make sure that the COM number is less than 10 and the baud rate is 19200.

6.2) Installation with the black USB-RS232 cable

If the cable provided with the interactive whiteboard black, click  to install the driver.



Click  and begin to install USB-RS232 cable until complete installation. After installing correctly in “My Computer” -> “Properties” -> “Hardware” -> “Device Manager” -> “Port” can see the device “CP210X USB to UART Bridge Controller”



 After installation of USB-RS232 cable is completed, plug-in the USB cable, and to check the COM number of the CP210X USB to UART Bridge Controller in “My Computer” -> “Properties” -> “Hardware” -> “Device Manager” -> “Port” and to make sure that the COM number is less than 10 and the baud rate is 19200.

Running the software

1、 Startup of interactive whiteboard driver

Click "Start"->"All programs"->"Julong Educational Software" >"IPBOARD DualPen Software" >"IPBOARD DualPen Driver", and start IPBOARD DualPen Driver. It will show a tray icon of communication module , in the status bar if the lower-right corner of the desktop.



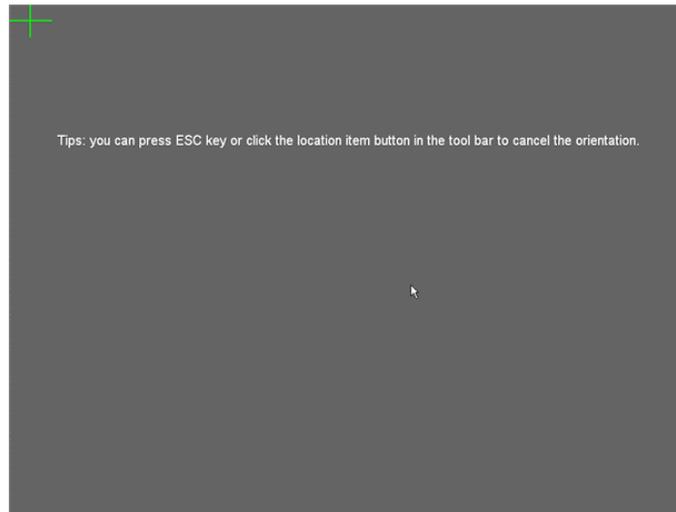
If it shows "Communication with board failed", please make sure that the connecting cable and Interactive whiteboard is correctly connected and the driver for the USB cable has been correctly installed. Then click on the IPBOARD DualPen Driver icon in the lower tray and select "Reconnect IPBOARD" in the pop-up manual.

2、 Orient the interactive whiteboard

- 1) Click tray icon  of interactive IPBOARD DualPen Driver by left key of mouse, select "**Orientation**" on the popup menu to enter orientation interface of IPBOARD DualPen Driver. The following window appears..



- 2) Left click "**Re-orientation**", it will open the Orientation window. Click center of the flashing sign "+" using electronic pen. Follow the prompt (there are six orientation points in all, left up, right up, right down, left down, top up and middle) as shown below:





- ◆ Please select "**Re-orientation**" for the first time installation of the interactive IPBOARD DualPen Driver, or if the position of projector and interactive whiteboard has changed.
- ◆ You can obtain a fast orientation by selecting "**Previous re-orientation record**", if there are no hardware changes since last time.
- ◆ When there is no need for accurate orientation, you can select "**default orientation**".

3. Startup the application software of interactive whiteboard

- 1) Click "**Start**"->"**All programs**"->" Julong Educational Software ▶"->" IPBOARD DualPen Software ▶"->" IPBOARD DualPen Software ", and startup application program, will provide a popup a Logon window as shown below;



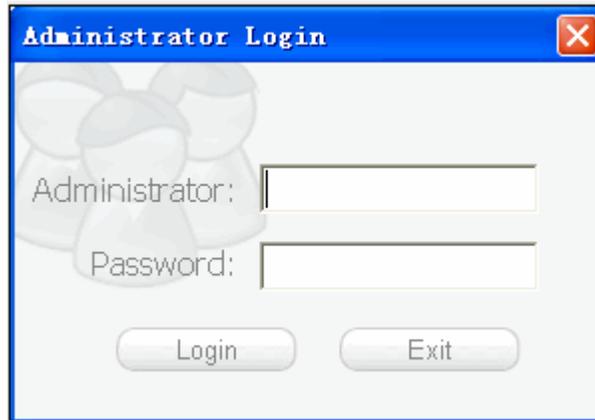
- 2) Users can use default user account or their individual accounts to log-in IPBOARD DualPen Software. Users are able to create customized toolbar, resources and templates if they are using their individual accounts.



Ensure the connection between interactive whiteboard and PC is good and driver of interactive whiteboard is running before starting up application software. If not, the application program will not startup normally.

4. Create an individual account and password

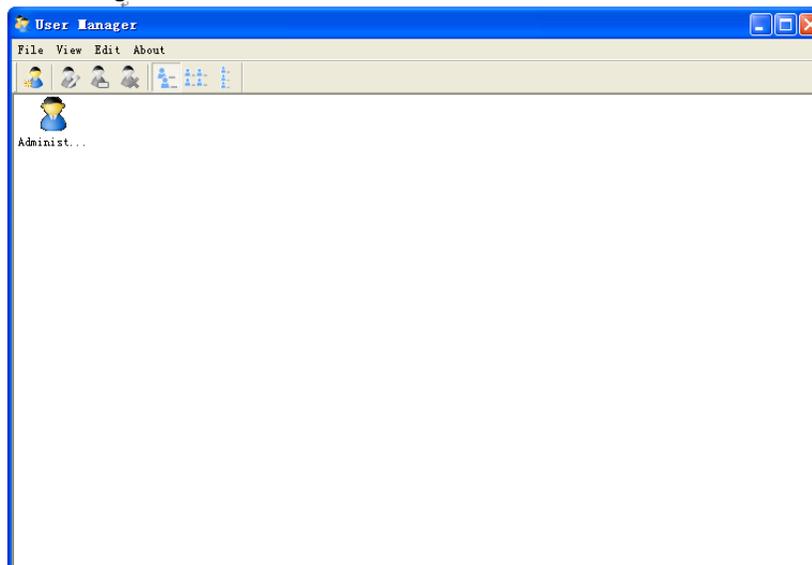
- 1) Click "Start" ->"All Programs" ->" Julong Educational Software ▶"->"
"  IPBOARD DualPen Software ▶"->"  User Manager " and will pop-up the following window :



Key-in the administrator account to operate the software.

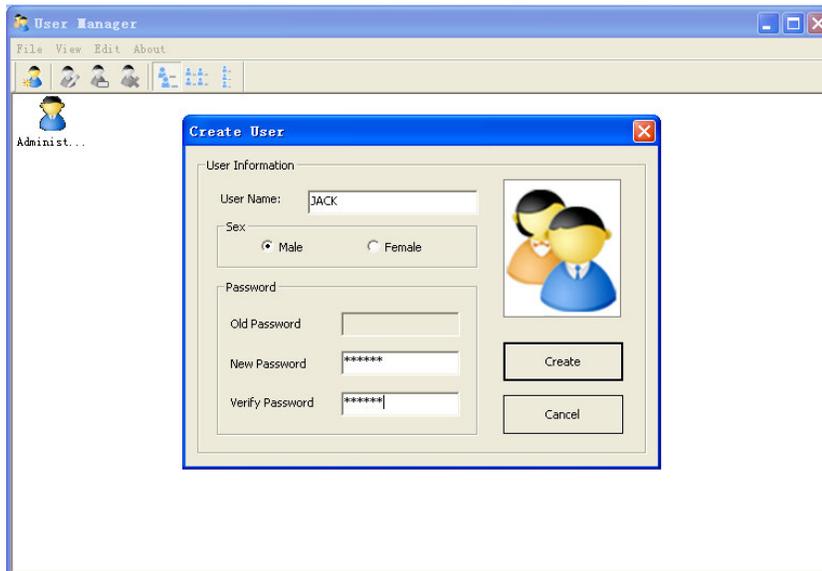
Default administrator account is: **Administrator** , **Password: julong**.

- 2) Enter the User Manager window

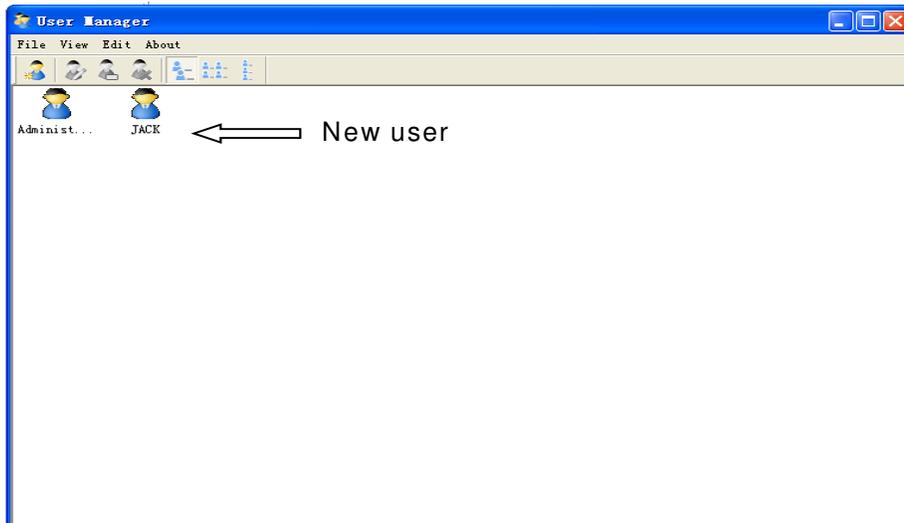


- 2) Select "**Edit**"->"**New User**" to create an individual account.

- 3) Key-in the user name and password and select Create.

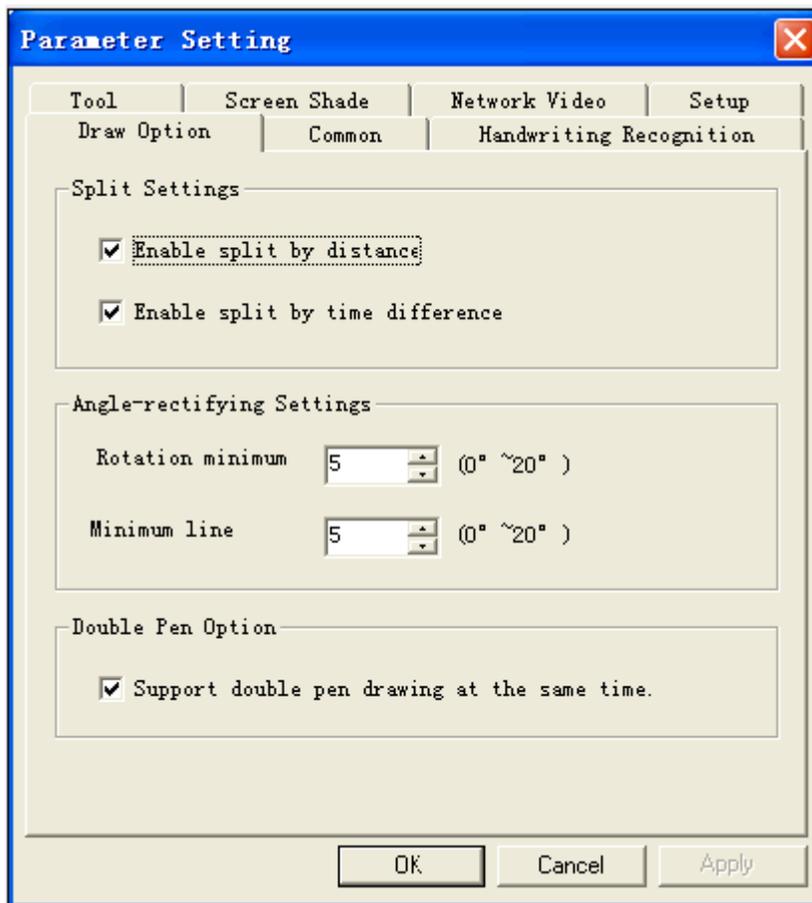


5) The new user will be displayed in the window after the process is completed :



5、 Dual Pens Function Setup

Click "Options" , and the page below appears. Start the dual pen function.



Function Keys

Function keys	Definition	Control Mode	Window Mode	Annotation Mode
	Orientation	Orientation	Orientation	Orientation
	Control Mode	No Effect	Switch to control mode	Switch to control mode
	Annotation Mode	Switch to annotation mode	Switch to annotation mode	No Effect
	Window Mode	No Effect	Head Page	Head Page
	Create a blank page	Create a blank page	Create a blank page	Create a blank page
	Page Up	No Effect	Page Up	Page Up
	Page Down	No Effect	Page Down	Page Down
	Normal Pen	Switch to annotation mode and use Normal Pen	Normal Pen	Normal Pen
	Transparent Pen	Switch to annotation mode and use Transparent Pen	Transparent Pen	Transparent Pen
	Eraser	Eraser	Eraser	Eraser
	Replay	Replay Pages	Replay Pages	Replay Pages
	Print	Print	Print	Print

Trouble Shooting

1. If startup shows “Failed to verify the whiteboard, the program can't run further!” please check whether there is a good connection between whiteboard and PC.”

- Please check if using the special-purpose cable of whiteboard, and if there is a good connection for cable.
- When connection is made through the USB2.0 to RS232C cable, check whether it is correctly connected with special-purpose adapter.
- Check whether the whiteboard has power. (Normally the red indicator lamp is ON)
- Check whether serial ports from COM1 to COM10 are selected. You must select one serial port from COM1 to COM10 for whiteboard.
- Check if the driver of whiteboard has been setup correctly.

2. When startup software shows “Error happen when Loading XML File”.

Check the version of Internet Explorer, upgrade IE to version 6.0 if it is 5.0 or lower.

3. When only part of whiteboard can be written on.

Check if the orientation of the whiteboard is correct.

4. Some orientation points can not found when attempting to oriente the whiteboard.

Check if the lateral deviation and vertical offset of projector are correct. Ensure the complete image on PC monitor is being projected on the whiteboard.

5. Electronic pen cannot write normally.

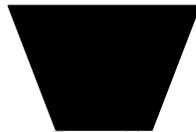
- Check current working mode of the software. Writing is effective only under the “Draw Mode” or “Annotation Mode”, and not when in the “Control Mode”.
- Do not press button on the electronic pen when writing.
- Please keep the neb of electronic pen vertical to the whiteboard.
- Do not press the electronic pen tightly.
- Check if the pen battery has power, if not, replace it with a new one.

6. How to exit from the Dual Pen software ?

- Click icon button of "Pop Menu" on Floating Tool Bar, click "Exit" in the pop up menu.
- Or click “File”(on main menu), then “Exit”.

7. Why the projected image is trapezoidal in shape. How to adjust it?

- It may be that projector is not level (like, the front is higher than the back). The image will be distorted when trapezoidal, so you must adjust it.
- Generally, it can be adjusted by using the keystone correction of the projector. For details, please refer to user's manual of the projector.



Trapezoidal



Rectangle

8. What type of projector is needed to match with the interactive whiteboard?

The projector should have the following properties.

- 1) Front image projector
- 2) Support the resolution of PC. Ex; XGA resolution for both the PC and projector.

3) Have at least 800 lumens of light output.

9. How to operate when the serial ports are occupied.

Both table top and notebook PCs allow the addition of a new serial port. There are 2 options;

- Install a serial port card on the PC (note: generally, PCMCIA serial port card for a notebook PC)
- Using "USB2.0 to RS232C+ special designed cable " to connect whiteboard and the PC.

10. Can 25-pin serial port replace 9-pin serial port?

Yes, but only if you have installed an adapter for 25 to 9 pins on the PC.

11. When having used an un-erasable (permanent) color pen to write on the whiteboard

Never use permanent color pens on the board! Once you have done it, clean it lightly using absorbent cotton dipped with alcohol. Try writing over the permanent pen markings with a dry erase marker. Then wipe the markings. The dry erase marker generally causes the permanent ink to come loose.

12. How to clean the surface of the whiteboard?

Clean the surface lightly using a piece of damp cloth.

Attention: Please be sure to wring out the damp cloth, there must not be loose water on the board. You must prevent water from entering the frame edges.

Performance index

Hardware Platform	PC, notebook PC
Operation System	Windows 2000/XP/Vista
Transmission Interface	RS-232C/USB / Wireless Module
Resolution	8192×8192
Data-signaling rate	19200Baud Rate
Operating Principle	Wireless electromagnetic induction
Operate Mode	Control Mode/ Window Mode / Annotation Mode./Full-screen Mode
USB Power Supply	DC 5V 100mA Or Powered by external 5V adapter
Service life of battery in the electronic pen	Service life varies for different battery types. A common alkaline battery can operate for over three months.
Working Temperature	-20°C ~ +55°C
Power capability	< 2W

Service ; contact local dealer or Dukane

Technical Support

- ✧ Please contact Dukane to obtain warranty services
- ✧ All customers shall provide the purchasing information.

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