



Xiamen Interactive Technology Co. Ltd

# INTECH Infrared Interactive Whiteboard

## User Manual



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## Welcome to INTECH Interactive World

 **Warning:** In order to unleash the extraordinary potential of your INTECH IWB, please read this easy-to-understand “user manual ” before using. After reading, please keep it for reference in the future.

### Accessories List:

The following accessories should be included in the box:

- USB cable
- 4 intelligence pens
- pointer
- 4 wall mounting brackets
- user manual
- software CD
- 8 setscrews
- mobile stand with wheels (optional)
- wireless module (optional)

If you find something destroyed or shortage of accessories, please contact with the local distributor.

This manual is used for all Infrared Interactive Whiteboard products.

All the symbols and notices in this manual as below:



Description: the additional instruction about software.



Attention: the problems always happening when using, and here advising how to avoid them.



Warning: The process of using the product may cause harm to human or non-standard use may damage the product itself.



Warning:

- When using the interactive whiteboard, the user should avoid fire and electric shocks, also need to avoid prolonged sun exposure
- After installation of whiteboard, user should ensure it firm.



Warning:

- When using projector with IWB together, may not look directly at the projector beam.



Important Attention:

— Please make sure that the whiteboard, projector, computer's power supply grounding, to avoid accidental damage to electronic products.

— Please make sure the whiteboard and computer cable is connected correctly to ensure the normal power supply.



**Attention:**

- If the IWB mounted on the wall, it must be straight with the wall.
- Do not use sharp or sturdy thing to cut or carve the board surface or frame.

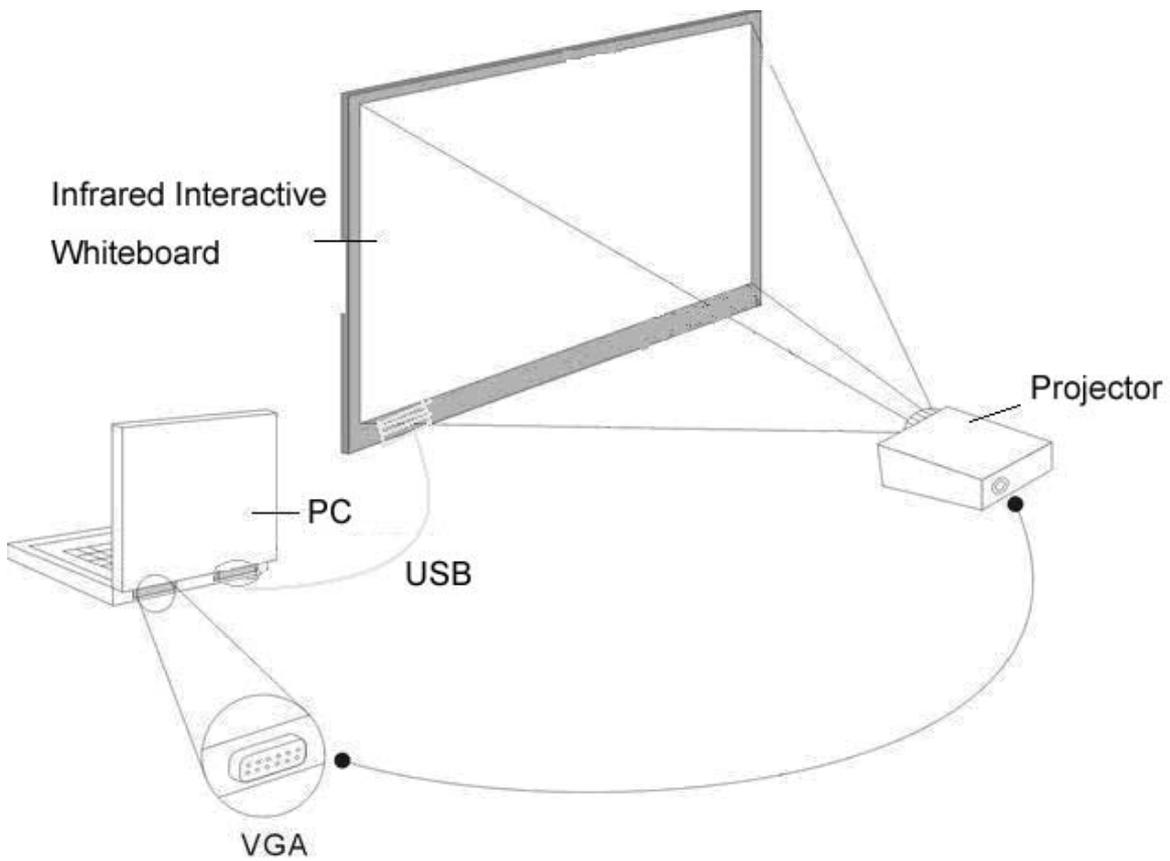
# 1. General Introduction

Welcome to the interactive world of INTECH!

## 1.1 What is Infrared Interactive Whiteboard?

Infrared Interactive Whiteboard is a comparatively new member of the various IWBs widely installed and applied. It adopts infrared matrix sensing technology, enabling the touchableness of any operation on the board together with computer and projector.

The user can write and draw directly on the whiteboard and conduct any operation of the computer by hand or pen. Further more, you can save, print, display and manage all the information in your computer and from the internet with the IWB directly, which has been a very modern solution for education and is in tune with the new generation's digital nature. INTECH's easy-understanding software interface ensures the simplicity of use and operation. You will find that learning how to use INTECH software would be a very happy journey.



Interactive System Composition

## 1.2 About this user manual

This user manual introduces the usage and functions of INTECH infrared IWBs and illustrates how to operate on the infrared interactive whiteboard with INTECH software in details, as well as the installation details of the IWB and INTECH software.

## 2. Preparation for work

### 2.1 How does the IWB work?

It's quite simple to use INTECH infrared IWB. If you can use computer, it is just that easy to use INTECH interactive whiteboard. This touchable board connects your computer with projector, and displays the screen of computer. You can use your finger, intelligent pens, pointer or any other non-transparent object to control computer through the IWB. Also you could write on the board with an ink pen directly, which is available only for the infrared IWB.

It adds fun and inspires your students and audience during lesson or speech with INTECH infrared IWBs!

### 2.2 Requirements of the PC system

#### 2.2.1 The minimum system configuration

- PC with 300MHz x 86 processor
- 128M EMS memory
- Display card support 256 colors and above
- 10M applicable hard disk space
- Display resolution: 1024×768、1280×800、1280×1024
- An available USB port
- CD-ROM drive

#### 2.2.2 Requirement of the Operation System

- Windows 98, VISTA, 2000, or XP

#### 2.2.3 System configuration recommended:

- PC with 1GHz x86 processor
- 256M EMS memory or above
- Display card support 256 colors and above
- 10G applicable hard disk space
- Projection display resolution: 1280×800
- An available USB port

### 2.3 How to install the Infrared IWB?

Please follow the ways below to install the infrared IWB.

- (1) Mobile stand mounting. (Optional)
- (2) Wall mounting.

### 2.3.1 Installation for the mobile stand

It's quite easy for this installation. Only a wrench needed.

1. Fix the four wheels on the base of stand with the wrench.



2. Plug the two beams into the slots of two vertical poles, and then plug the vertical poles into slots in the middle of bases. Fix them all with screws and washers.



Then the stand would be like this as below:



3. Fix the four small screws into the screw holes on the back of IWB.



4. Hang the IWB on the finished mobile stand by the screws fixed.



5. Make it firm with screwdriver.



Then the installation finished.



Description: 1. Turn the position control button of wheels into “Lock”. Make the wheels static, not shift.  
2. Do not fix the screws too tight, to avoid damage on any stand.

### 2.3.2 Installation for wall mounting. (Photos for reference)

You may need tape measure, wrench and drill for installation.

1. Choose the right place to install the board, which is convenient to connect the computer..
2. Mark the drill positions on the wall according to the different models of products.
3. Drill 8 fixing holes on the wall according to the mark.
4. Fix the brackets on the wall with 8 setscrews.



5. Hang the board on the brackets with correct positions.



Then the installation finished.

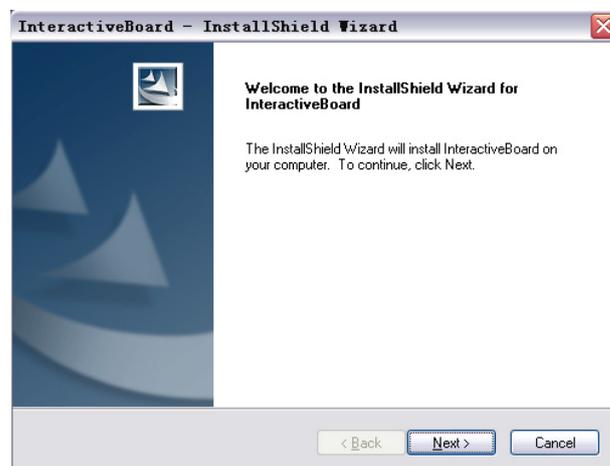


Description: You could place all the intelligent pens on the right side.

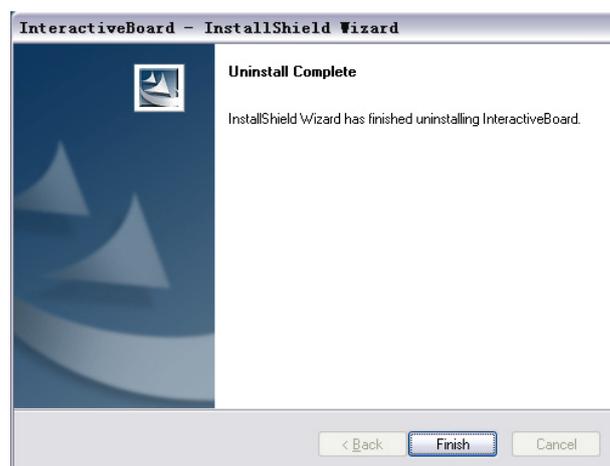
## 2.4 How to install the infrared IWB software?

Connect the computer and the whiteboard by USB cable, (the following installation example is the installation under WINDOWS XP, a slight difference maybe in other operation systems).

Insert the Software CD into your CD-ROM, then please click the Software Setup icon. Then choose the language you prefer and click “Next” to install the software.



Complete the software's installation, then click “Finish”.



If the driver installed properly, the USB indicators of the whiteboard will light in red. Then the IWB would be available after some simple setting. Just click the “InteractiveBoard” icon on the desktop, which is our application software.

### 3. Basic using of the infrared interactive whiteboard

#### 3.1 Basic attributes of the infrared IWB software

**Hand-Gesture Recognition:** Support single finger, multi-touch.

**Write:** By finger, pen or ink marker.

**Touch:** At working status, the whiteboard is a touchable interactive board of high preciseness. The finger or pointer can substitute mouse, and click or drag any objects on the screen conveniently to achieve various operations.

**Annotation:** Annotate directly on various files and videos, available file formats such as PPT, WORD, EXECL, AVI, MEPG, JPEG, and etc.

**Energy saving:** Consuming less than 0.5W and no need for external power supply.

**Individualized setup :** Background, paintbrush text inserting, default screen can be set at individual preference. Various writing interfaces( black or white background) available.

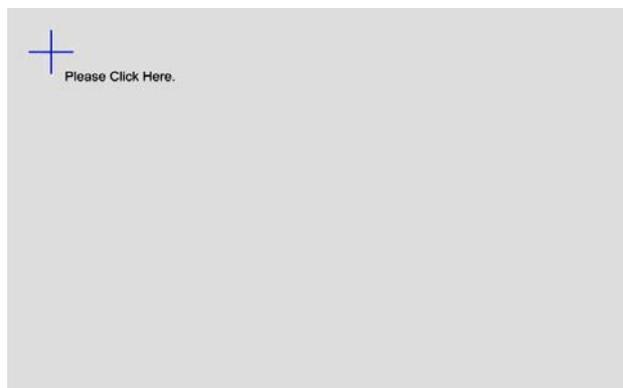
#### 3.2 Establishing Communication between the Board and Computer

When you connect the IWB with computer through USB cable or wireless module, the computer could sense the IWB automatically if you have installed the INTECH software CD properly.

Then please click the “Server.exe” icon  on the desktop. The IWB’s connection status would be shown in your computer’s taskbar. If the communication is not successfully established, please recheck the USB cable or the wireless module connection .

#### 3.3 Locating the Infrared Interactive Whiteboard

Please right-click the icon  in the taskbar, and choose the “Calibrate” command to define the position of the IWB before the using the IWB. Then you would see the screen like below:



Click the center point of the black cross  by pen or finger to define the position precisely.



Attention:

1. The calibration is necessary only at the first time the whiteboard or other hardware is used.
2. Re-calibration is required only if the IWB or projector has been adjusted or relocated.



Description: If bad connection occurs, the connection icon in the taskbar would change its indication of status as below.



means the connection is failed.

### 3.4 How to write on the board?

The whiteboard sends writing data to your computer by detecting a single point of touching or of reflected light. Whenever you write on the whiteboard, make sure there is only one point of contact at a time. Choose a pen (intelligent pens on the pen tray) , a pointer or use your finger, even all kinds of non-transparent objects to write. Select a pen color on the whiteboard icon strip. Interactive Software recognises and records your writing in the color you choose.



Description:

1. Make sure the whiteboard is connected with the PC when necessary.
2. Once the IWB and the PC are connected, start the Interactive Software application. If the Interactive software is not installed on the computer, or if the software does not automatically detect the whiteboard, refer to “How to install Interactive Software” on page 10.
3. Choose a pen.
4. Write or draw on the board. Your work appears in the Interactive software window.

### 3.5 How to erase on the board?

Erasing functions are based on a calculated circle around a single point. Always use the eraser  that is provided with your whiteboard.

### 3.6 How to print on the board?

You can print any image or content displayed on the board at any time with a printer that is connected to the computer. Simply click the Print icon to start.

### 3.7 How to capture a snapshot of the board?

The Interactive software records all the activities conducted on the whiteboard. Capture a snapshot image of the current screen, then you can save for further usage within the computer. Click the Snapshot icon  to get the capture, then you can write, draw and erase on the picture as well as move it around, or zoom it in and out.



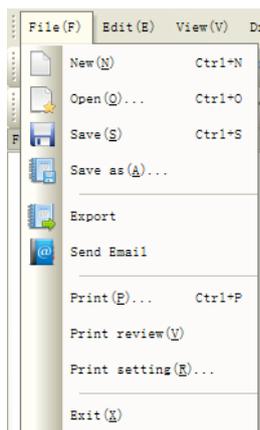
Button	Function	Button	Function
	Create document		Open document
	Save		Save as
	Export		Send e-mail
	Undo		Redo
	Cut		Copy
	Paste		Clone(copy+paste)
	Delete selected content		Select All
	Screen Roam		Page reposition
	Zoom in		Zoom out
	Layer go TOP		Layer go Bottom
	Layer go Up		Layer go Down
	Property setting		Spotlight
	Screen cover		Screen highlight
	Break page		Screen arrow
	Screen write		Screen capture
	Screen recorder		Back up
	Rebroadcast		Pause
	Continue		Reset(stop)
	Select object		Solid pen
	Soft pen		Fluorescent pen
	Stripe pen		Intelligent pen
	Line segment		Elastic
	Insert image		Text recognition

	Eraser		Rectangle
	Ellipse		Isosceles triangle
	Trapezoid		Circle
	Parallelogram		Rhombus
	right-angled triangle		Hexagon
	Pentagon		Five-pointed star
	Sector		Arc
	Cuboid		Tetrahedron
	Cylinder		Ellipsoid
	Prism		Octahedron
	Cone		Frustum cone
	Dihedron		Full screen capture
	System setting		Screen keyboard
	Random selection(Dice)		Magnifier
	Clock		Calculator
	Compass		Ruler
	Trangle ruler		Protractor

### 4.3 Drop-down Menus

There are lots of hidden submenus in the drop-down menu as the following:

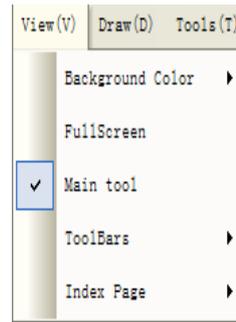
#### 1. File



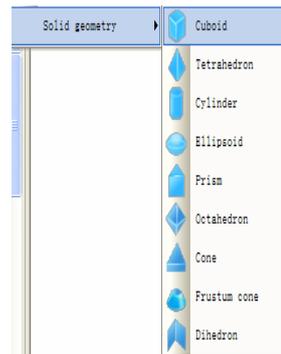
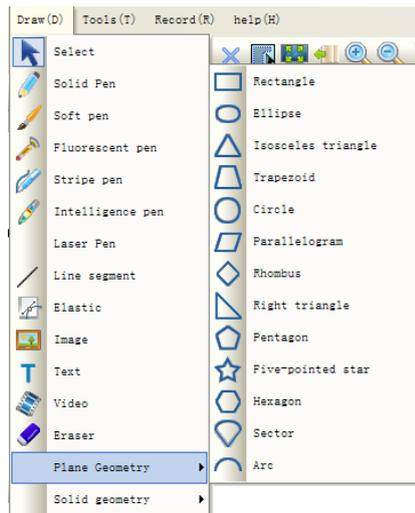
## 2. Edit



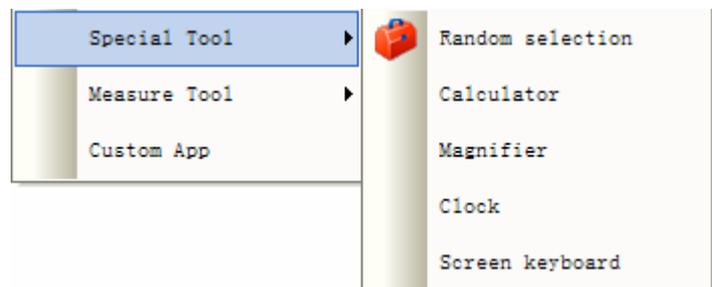
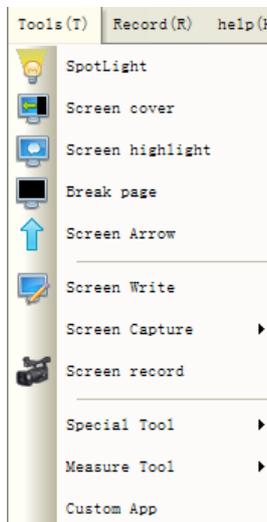
## 3.View



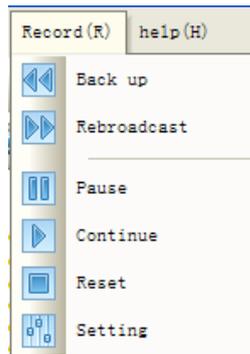
## 4. Draw



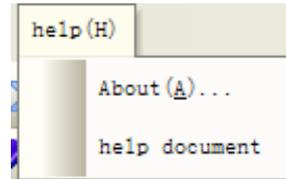
## 5. Tools



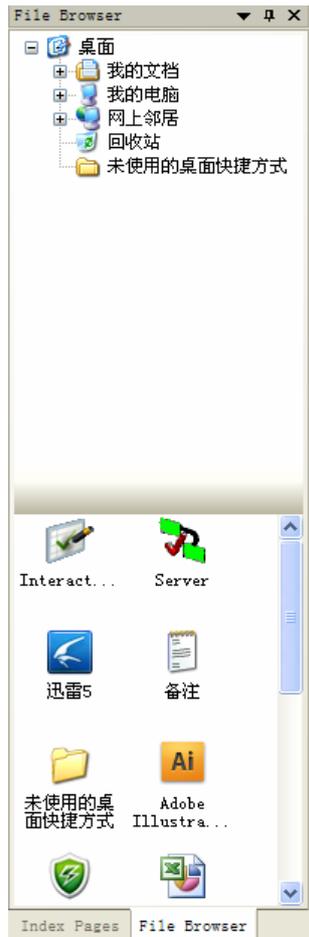
### 6. Record



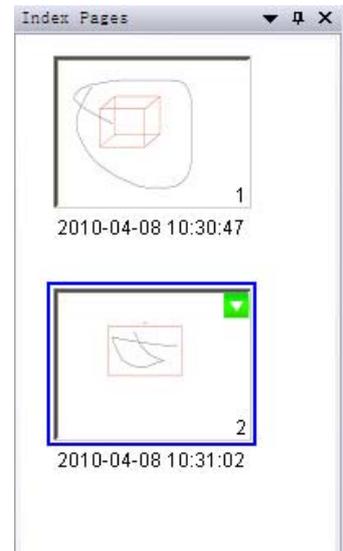
### 7. Help



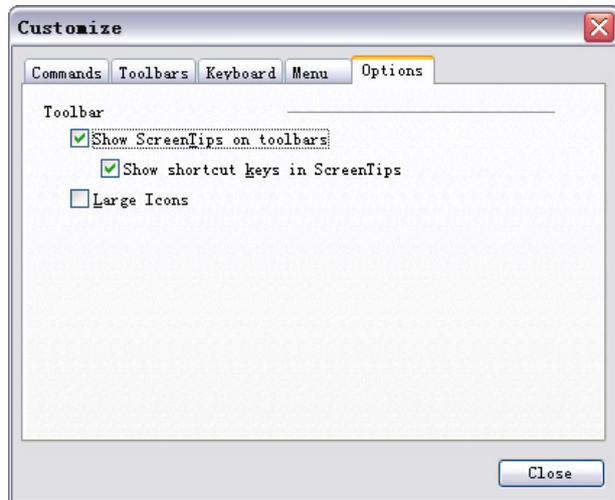
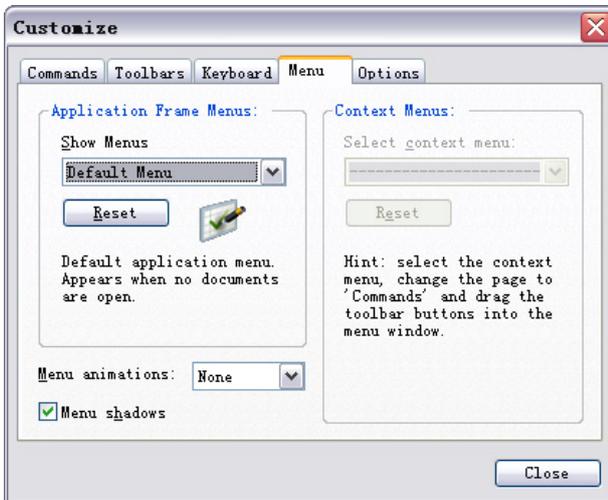
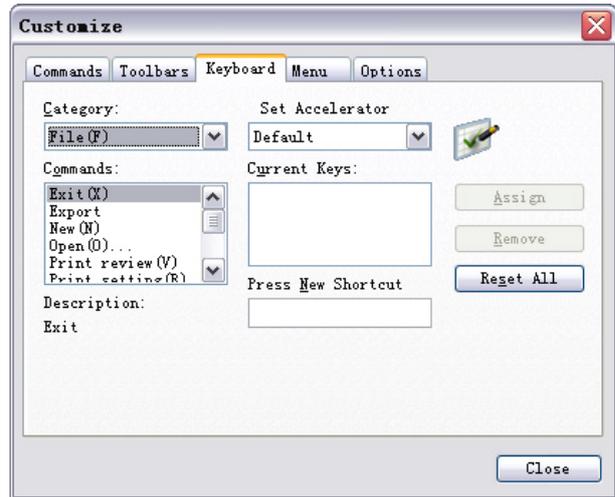
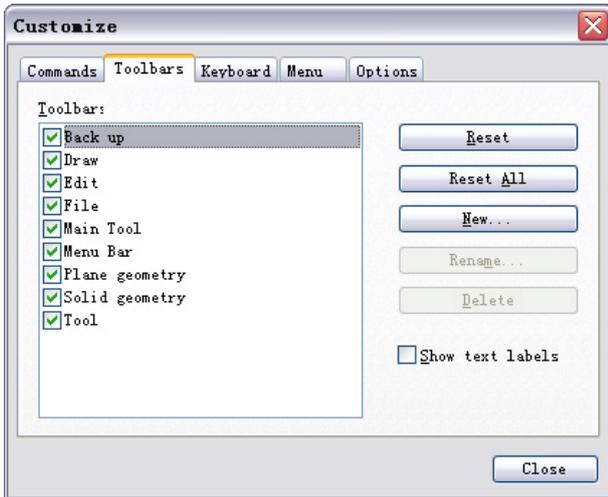
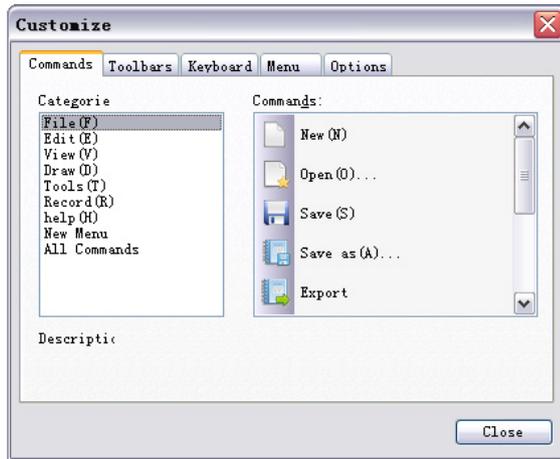
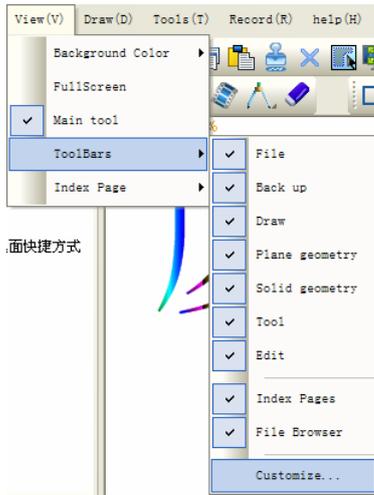
### 8. File Browser



### Index Pages



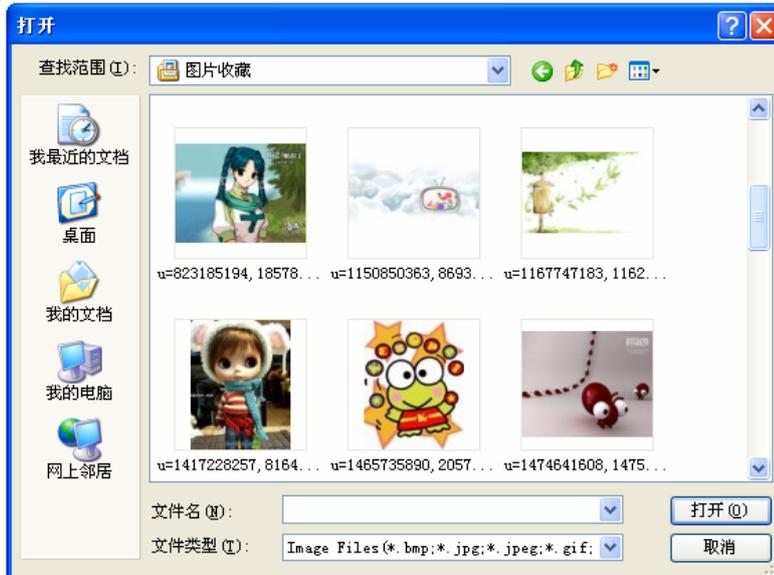
### 9. Customize the Toolbar



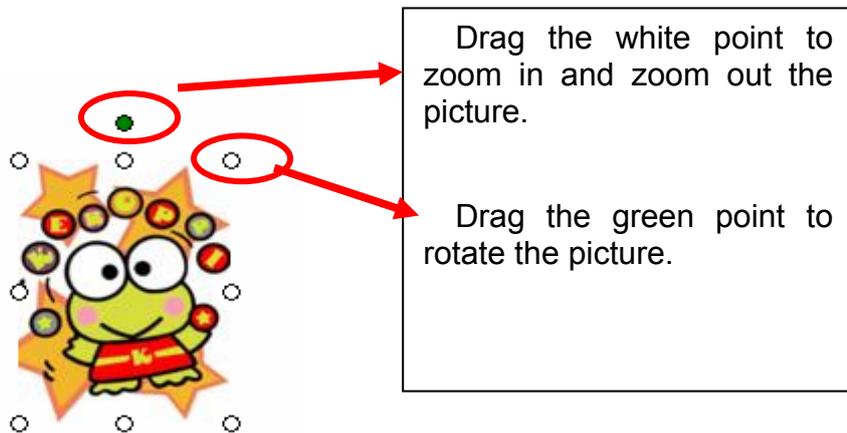
### 4.4 How to import images from the gallery?

INTECH software offers a picture gallery, in which there are hundreds of images categorized to different subjects. Use these pictures to animate a class or presentation in a vivid and easy way!

**Instructution:**Click the icon , or click “draw- image”, we will enter the image gallery.



Select a picture, click “open”, then drag out the picture on any position of the board. You will see the picture shown with some controlling point as the following:



### 4.5 How to show, hide and move the toolbar

In the tab “view”, we can select what toolbar to be shown or hidden by ticking on or ticking off.



By dragging something like this , we can move the toolbar to any position.

## 4.6 How to modify and move objects?

Click the icon  to select any object on the board, then we can see the object is surrounded by a few controlling points through which we can move, zoom in/out, rotate the object. This the same as controlling a picture as mentioned in “4.4”. What’s more, we can modify the object in the “Attribute”.

## 4.7 How to move the screen?

Touch and drag on the board with two or more fingers at the same time, then it will appear the icon  on the board, which suggests that we are moving the screen on the board now.

Another way, we just need to click the Roam function  , then we can move the screen with only one finger.

Being able to move the backdrop is very meaning, which can supply us unlimited writing space. When the current page is fully written, we just need to move the backdrop, so as to get new blank for writing. The original written content is still be on their position. Each position will be indicated in the left-top corner.

## 4.8 Backdrops and photo galleries provided by INTECH software

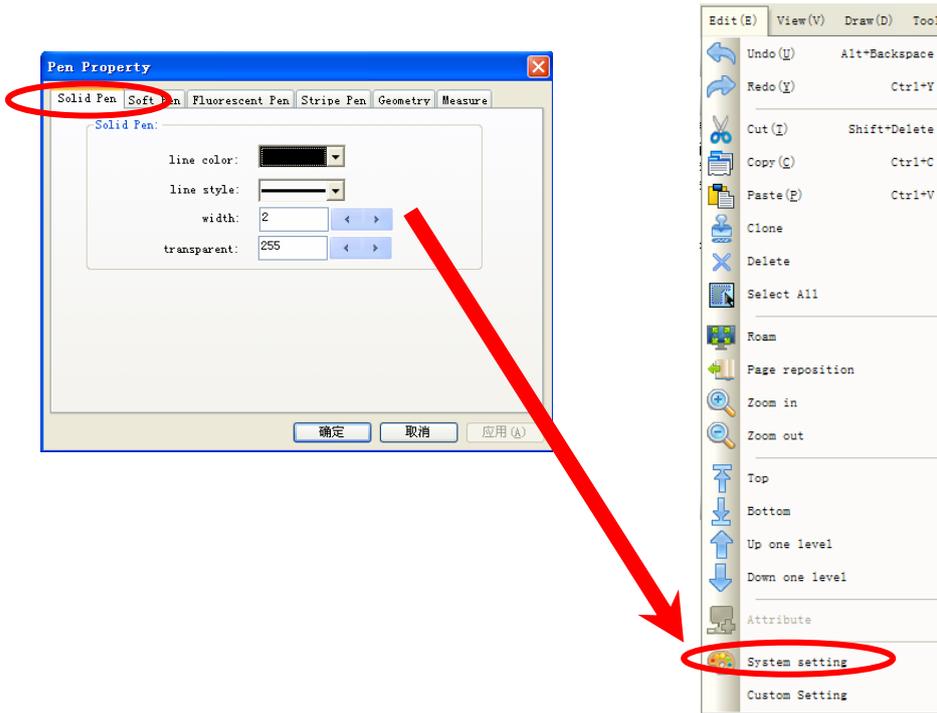
Intech software supports all the pictures from different resource, not only we can use the original pictures coming with the software itself, but also we can use the pictures coming from the user’s computer. That means the image gallery can be enriched unlimitedly. And the backdrops can be customized to be any picture from the image gallery.

## 4.9 How to set for whiteboard

We can set for the whiteboard in “system setting”. There are many ways to open the “system setting”.

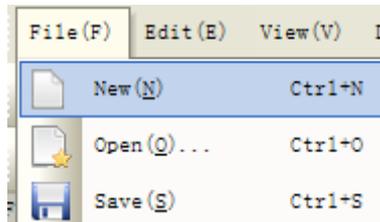
- Click the icon .
- Right click(touch and hold for 2 seconds on the board), then choose “system setting”.
- Click the “edit” tab and choose “system setting”.

In the “system setting”, we can set the property of the solid pen , soft pen, fluorescent pen, stripe pen ,geometry shape and measurement tools.



### 4.10 How to create a new file?

Click “new” in the “file” tab or the icon “new” to create a new file. The system will question you whether to save the current document. After choosing “yes” or “no”, a new file will be created.

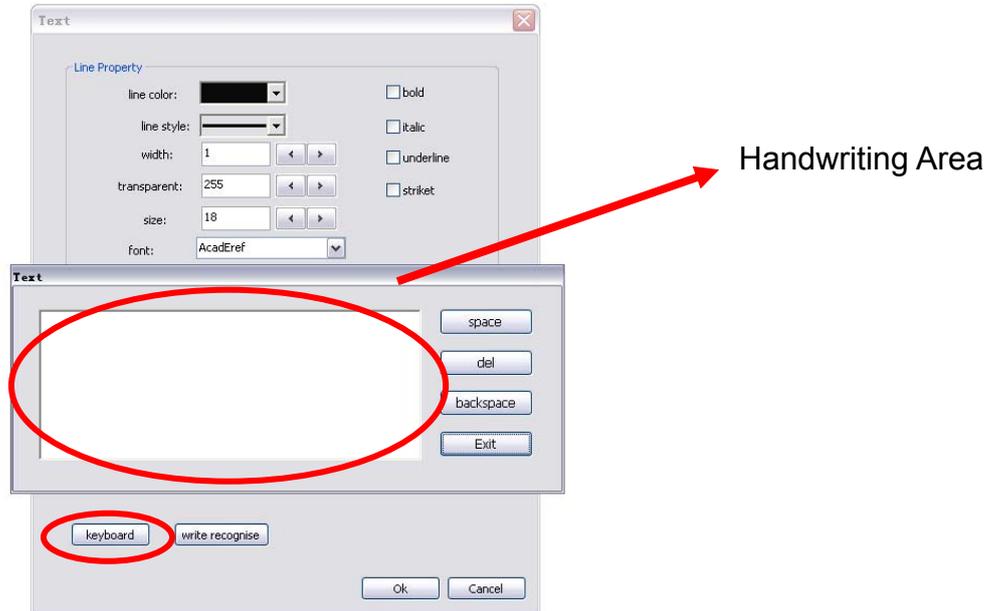


### 4.11 How to save a file?

1. Click “file—save” or the icon  “save as “ or the icon  to save contents inYT format, which is owned by INTECH. It is available in INTECH software only.
2. Click “file—export” ,or the icon  , we can save files in formats such as jpg, bmp, gif, tif, png, htm, pdf, wmf, emf, word, excel, ppt. This function applies to the current page only.

### 4.12 How to input text?

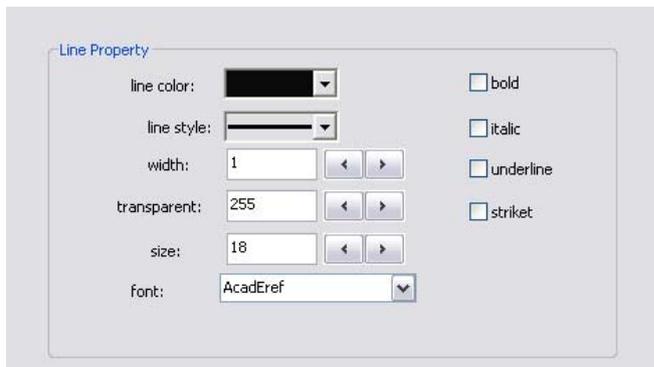
Click “draw — text “or , you will see the following:



In the red handwriting area, your writing will be converted to standard text. Besides the “write recognize”, we can use the “keyboard” to input text.(we can also find the keyboard tool in this way: tools-special tool-screen keyboard)



Note: we can change the setting of the text as demonstrated below:



### 4.13 How to use the screen record?

Screen record can save all the operation on the board into a video, through which the

students

are enabled to review the lesson easily. The operation is as the following:

Click tools - screen record or the icon , then we will see



Click to start REC, and you will see this button,

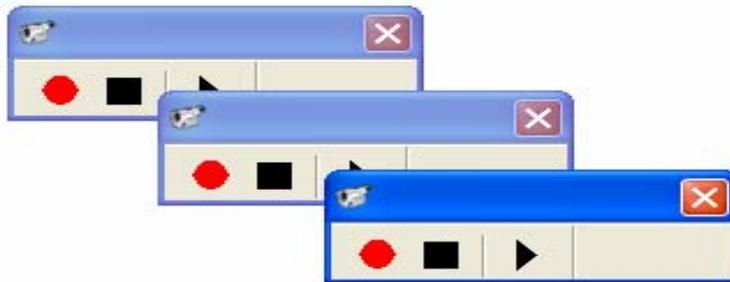


click it to stop REC, and start to choose the saving route.

Click to stop playing video.

Click to open the former saved vide

Note: it's available to open multiple screen record to REC the content at different time.



### 4.14 How to use Screen Capture?

Screen capture is like a camera, we can use it to capture anything into a picture.

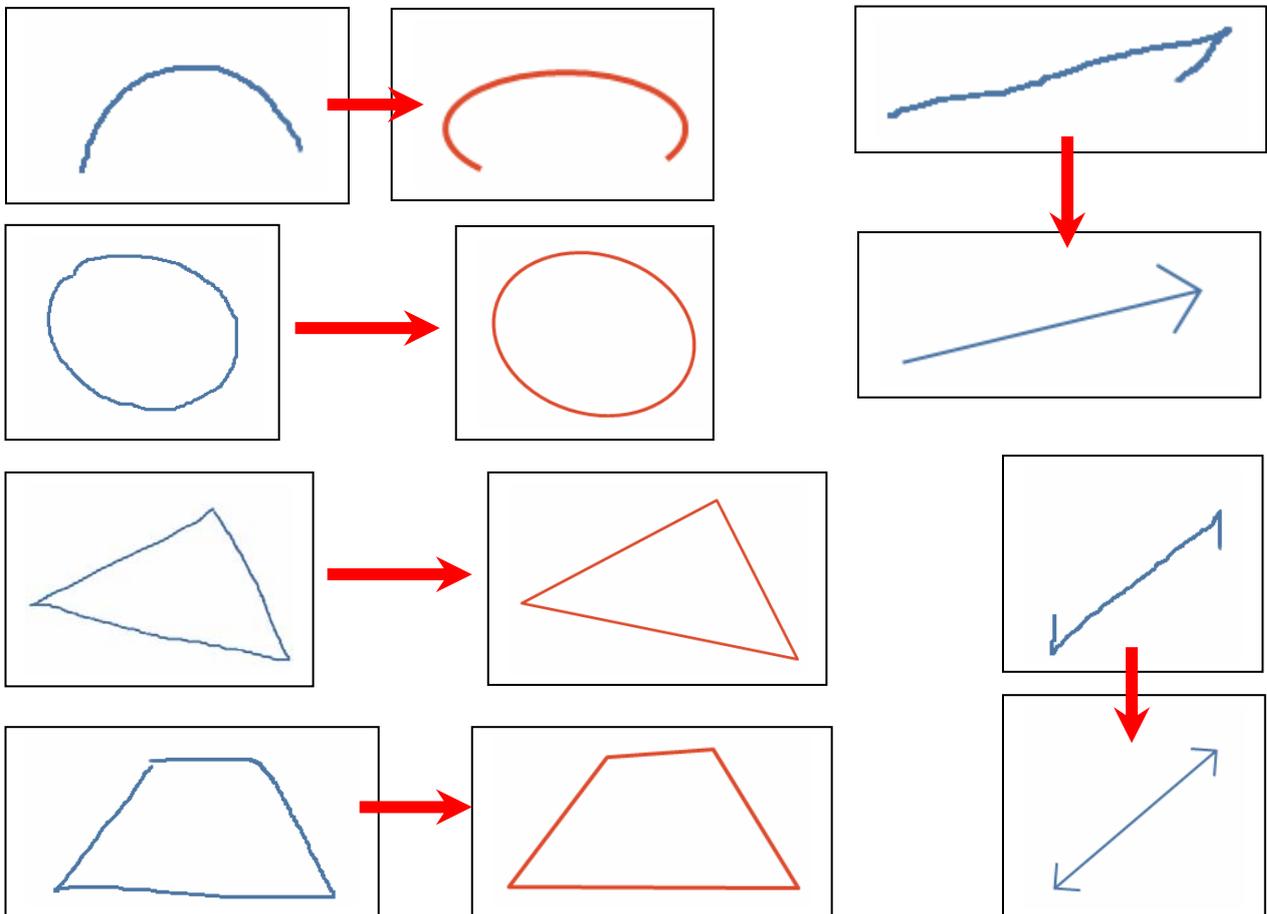
We can find Screen capture in “tools- screen capture” , the icon is . We can choose to use full screen capture or region capture.

Note: The picture captured can be zoomed in/out and rotated.

### 4.15 How to use intelligent pen?

We can find it in “draw- intelligent pen”, the icon is .

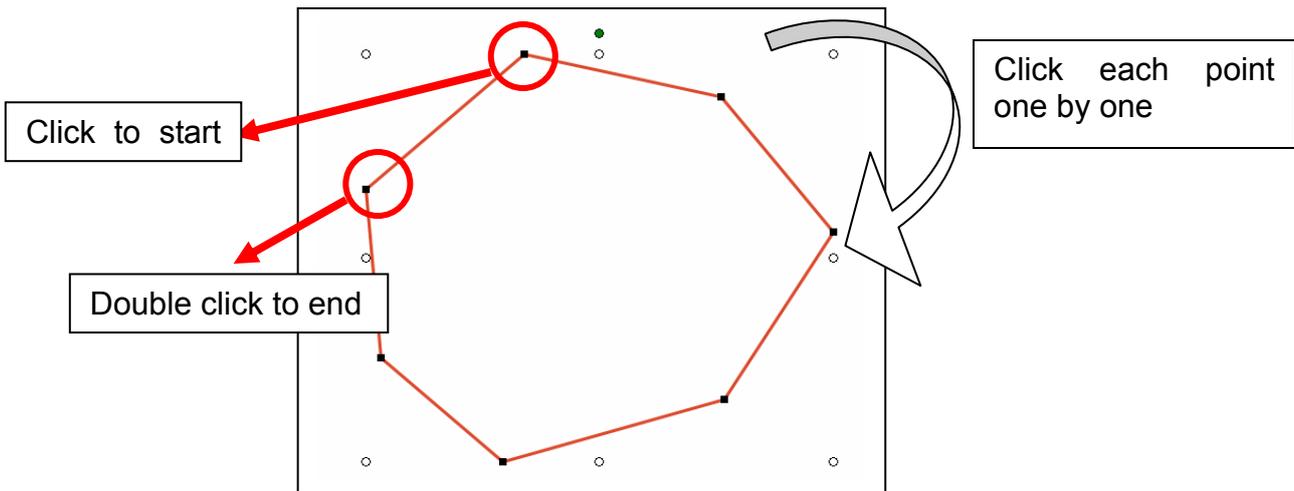
Intelligent pen is very smart and useful, which brings convenience to your lesson and presentation. It can recognize the following random shapes into standard shapes:



### 4.16 How to use the Elastic tool?

Select the Elastic function from the tag Draw, or click the icon  directly. Click/ touch the whiteboard to select the starting point, click or drag the rest corner based on the selected starting point, and double click the mouse or simply the whiteboard to finish the drawing of

an irregular polygon. As illustrated below:



Re-edition of the drawn polygon is allowed. To revise its shape, it is done with absolutely simplicity by dragging either the corner-point or the side to change its shape.

### 4.17 How to use the Spot Light tool?

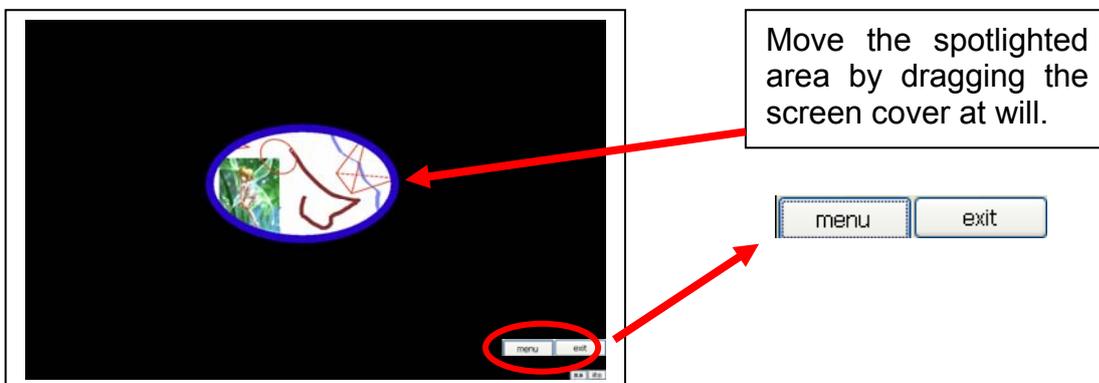
Spot Light acts as a highlight tool, it can draw the attention of students to focus on particular contents on the whiteboard.

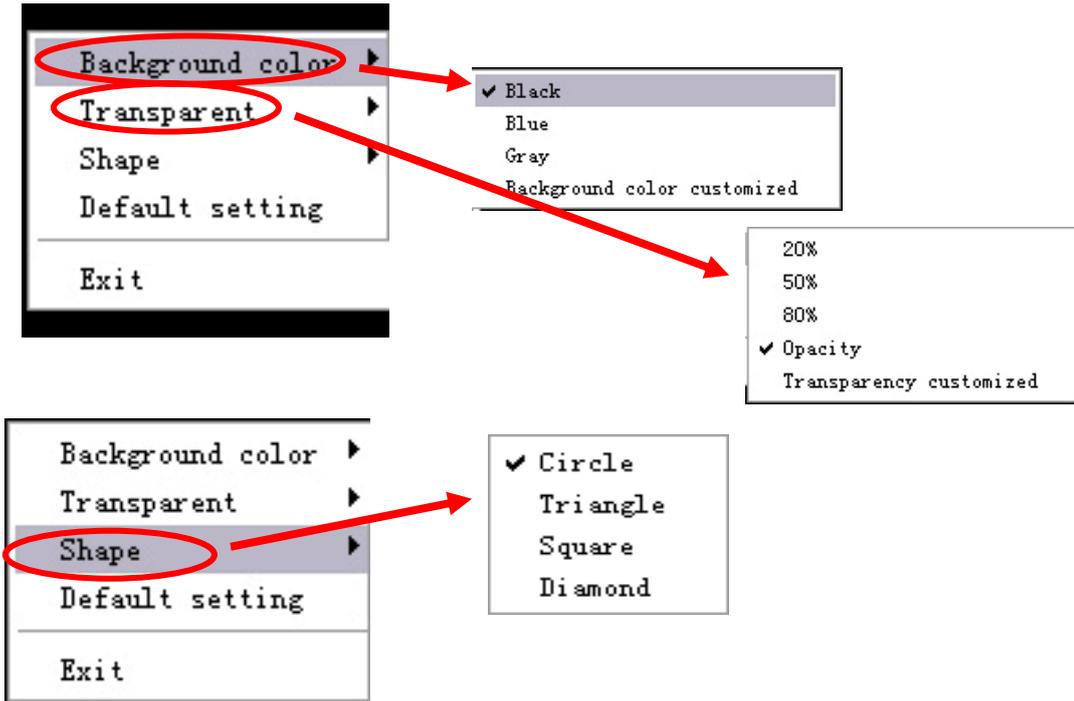


Click the icon , or click it in "tools-spotlight". We can drag the spotlight circle to any position to highlight anything as we wish.

Operation can take place within the spotlighted area.

Hold your finger on the dark screen for two seconds or click the menu on the right bottom of the whiteboard for attribute menu. Set the attributes through the pop-up menu and sub-menu. As illustrated below:



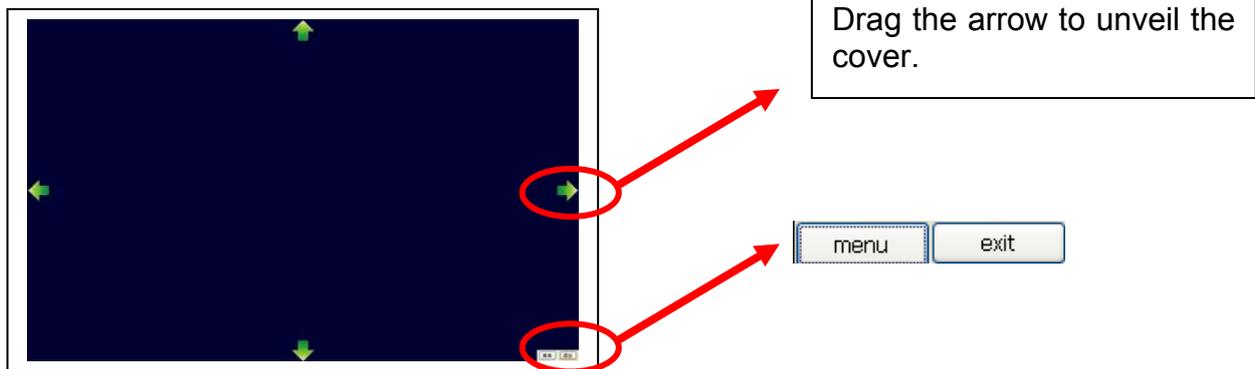


### 4.18 How to use the Screen Cover tool?

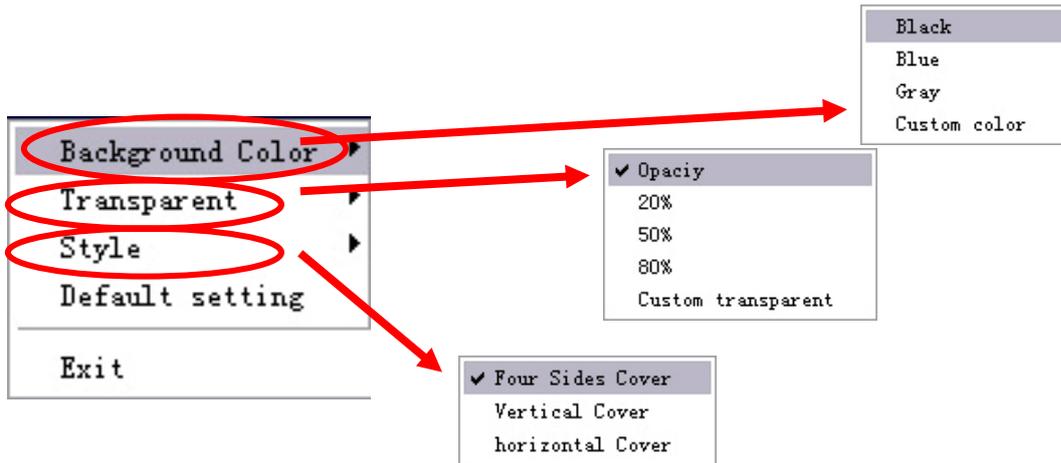
Screen cover can make the covered content seemed mysterious, students will be eager to see the content when revealing the cover slowly.



Click the icon, or "tools- screen cover", then the cover will appear with four arrows as illustrated below:



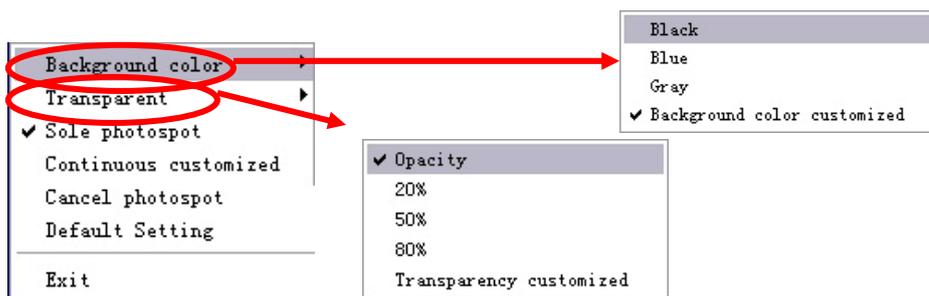
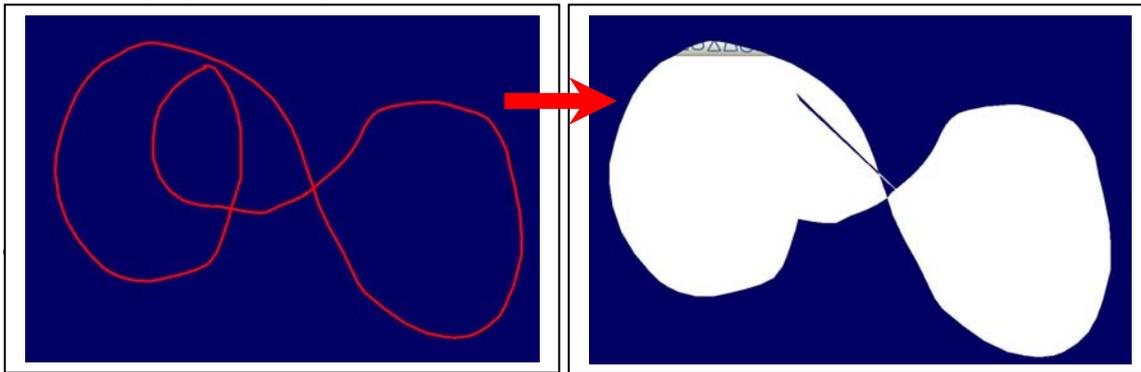
Hold your finger on the screen cover for two seconds or click the right button of the mouse or click the menu on the right bottom of the whiteboard, so as to set its attributes through the pop-up menu and sub-menu. As specifically illustrated below:



### 4.19 How to use Screen Highlight tool?



Select Screen Highlight through the Tool tag in “tools- screen highlight”, or click icon to cover the present screen first. Then use your finger / mouse to circle the area that you want to highlight. The highlighted area will be displayed as illustrated below:



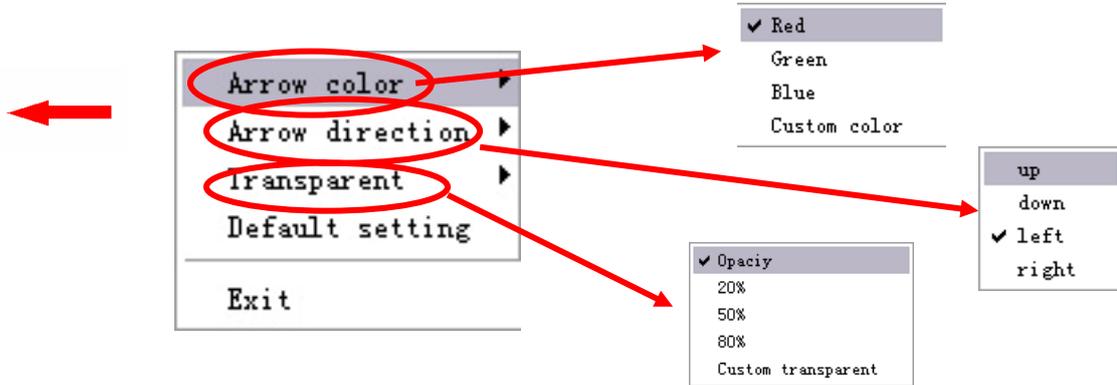
Note: The Screen Highlight and Spotlight are of similar functions. Contents either highlighted or spotlighted can be edited and operated on.

### 4.20 How to use Screen Arrow tool?

On many occasions, teachers will walk down from the platform to interact with students. The screen arrow can be used to identify the the main points or the on-going contents. In this way, every student can easily follow up with the class, and teachers can avoid influence of any exterior interference on the teaching quality and schedule.

Select Screen Arrow through “tools-screen arrow”, or click  icon, then you will see a red arrow in the middle of the screen. Drag the head part of the arrow to change its direction or position.

Click the right button of the mouse or hold your finger on the arrow for two seconds to activate its setting menu to change its attributes or to exit. As illustrated below:

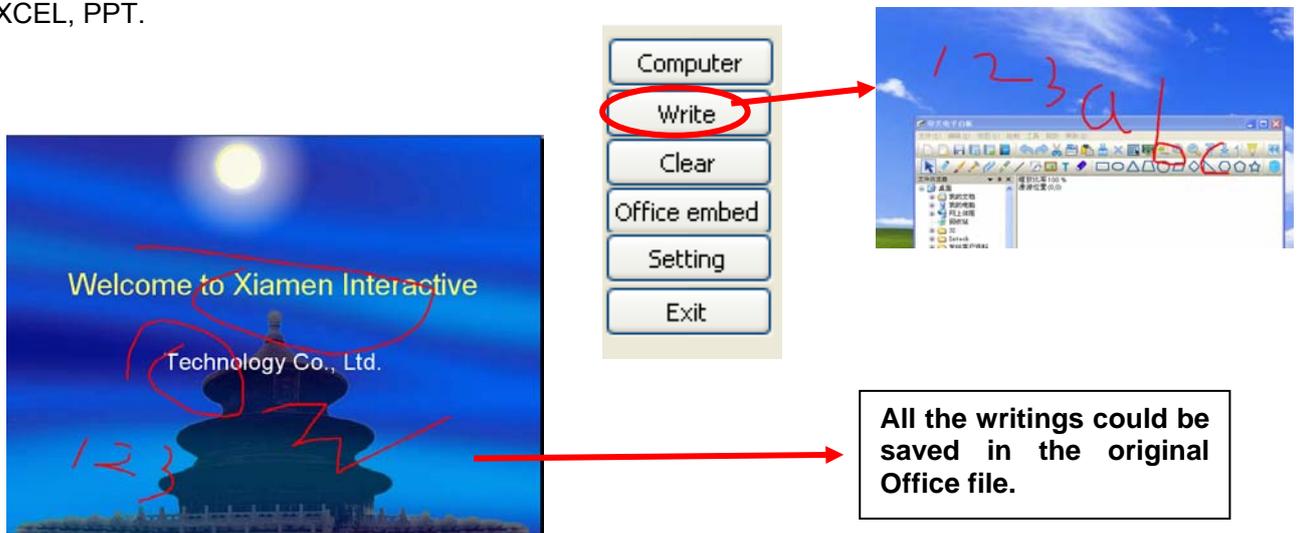


### 4.21 How to use Screen Write function?

One of the many important features of this software is to annotate on WORD, EXCEL, PPT, the screen, and even a video. Select Screen Write through “tools-screen write”, or

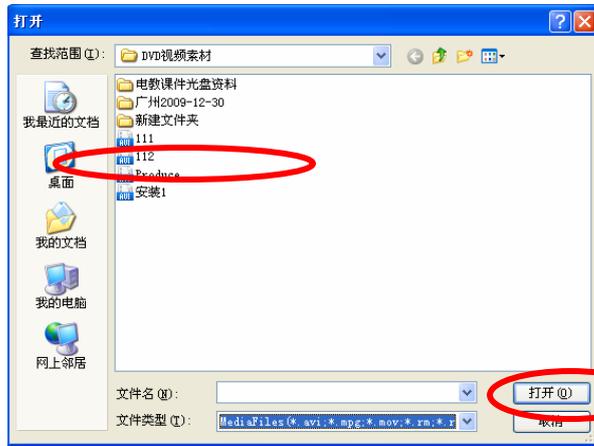
click  icon, an operating menu will display on the right bottom. The default state of Screen Write is “write”, we can switch the state to “clear”(erase contents), to “computer”(operating computer), to “setting”, or to “exit” (exit the Screen Write function).

When we are writing on Microsoft Office files such as WORD, EXCEL, PPT , we can click “office embed” to insert our handwriting into those files. **Note:** To save the handwriting into WORD, EXCEL, PPT, please switch to “computer” firstly, so we can click the “save” icon of the Microsoft office files. The saved handwriting can be edited and deleted in the WORD, EXCEL, PPT.

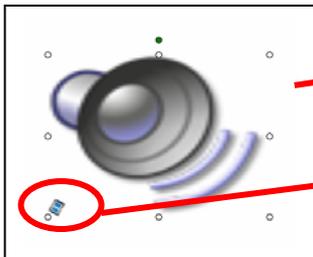


### 4.22 How to play a video file?

Click “video” icon, choose and open the video file, drag along the screen to locate and place the video player, and click on the play icon on the left bottom to start playing. Specific procedures as illustrated below:



Select a video and click the button “Open.”

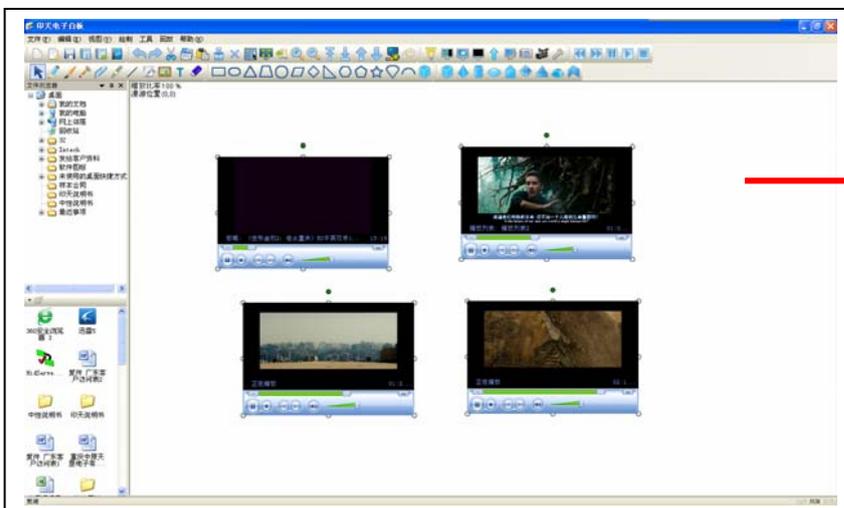


Drag along the screen to locate and place the video player.

Click this button to play the video.



Drag the points to modify the size of video player



Support the playing of multi videos simultaneously.

Note: This software supports the playing of multi videos simultaneously, the progress of each video can be adjusted separately without influencing the others.

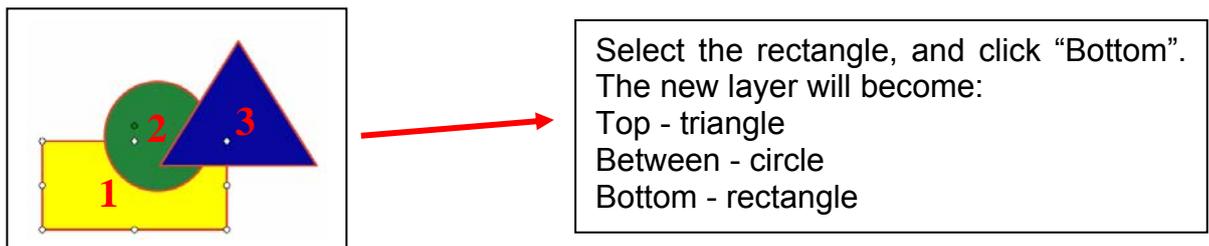
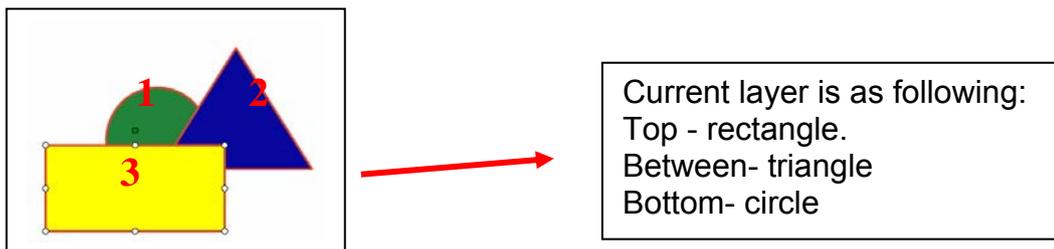
The size of the player window can be enlarged or contracted through the dragging of its controlling points around the window.

Screen Write function can be used to make annotation when playing the video.

### 4.23 How to change the layers of pictures?

When a few pictures are piled up together, each picture takes up a different layer. Clicking

Top, Bottom, Up One Level, Next Level from the “Edit” tag or click  on the toolbar, we can easily change the layers of pictures or texts or geometry shapes as illustrated below:



Note: To continuously switch the layers of selected object, please just simply repeat the click of Up One Level or Next Level. No need to reselect the object.

### 4.24 How to realize the Rebroadcast function?

The whole operating process on the board can be redisplayed by the following buttons:

 Back up: Display the operating process backwards, say from the end to the beginning.

 Rebroadcast: Display the operating process forwards, say from the beginning to the end.

 Pause: Pause the rebroadcasting progress. Annotation or explanation can be made on the displayed content at this status.

 Continue: Continue to play from the pause. This function is in accordance with the Pause function.



Reset: Stop rebroadcasting. **Note:** After rebroadcasting, please do click this button to end the application before conducting other operations.



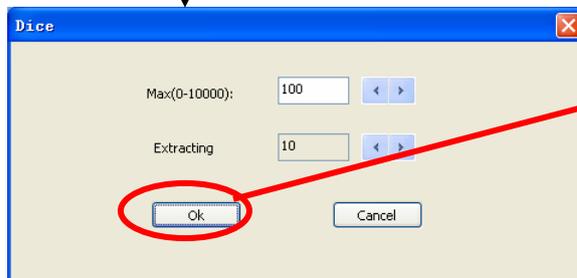
Speed setting: Adjust the speed of rebroadcasting.

## 4.25 Special Tools (Random Selection, Calculator, Magnifier, Clock, Screen Keyboard)

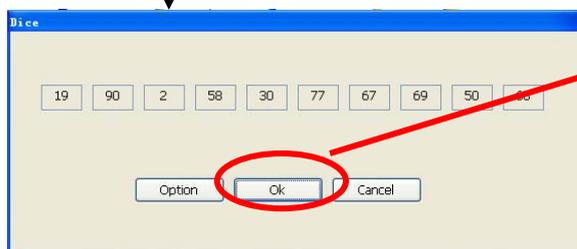
### 4.25.1 Random Selection:



Click the icon to activate the random selection window. Set the attributes as illustrated below:



Click "OK" to finish setting.



Click "OK" to generate the random selection result.

### 4.25.2 Calculator

To make it more user-friendly, the software has imported the tool of calculator. Select Calculator through "tools-special tool-calculator" or click the icon  , then the calculator will display. Just use your finger/mouse to touch/click the Calculator on the screen, it will be interesting and convenient. As illustrated below:

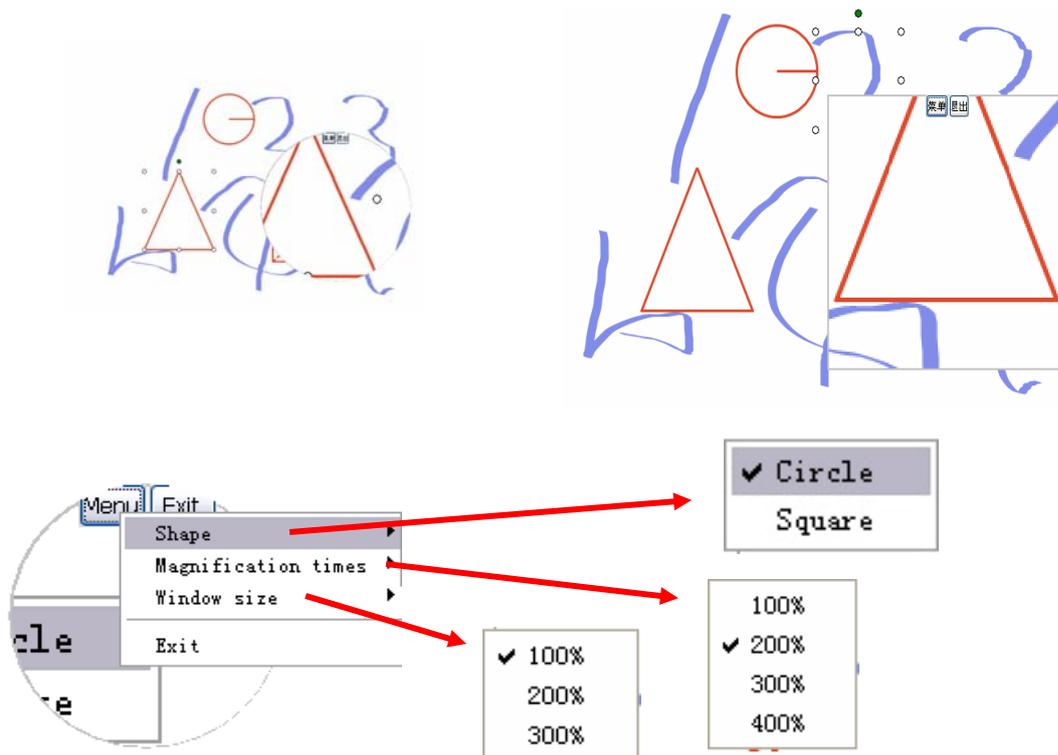


### 4.25.3 Magnifier

It's easy to enlarge any part on the screen with the help of the Magnifier. Just select the



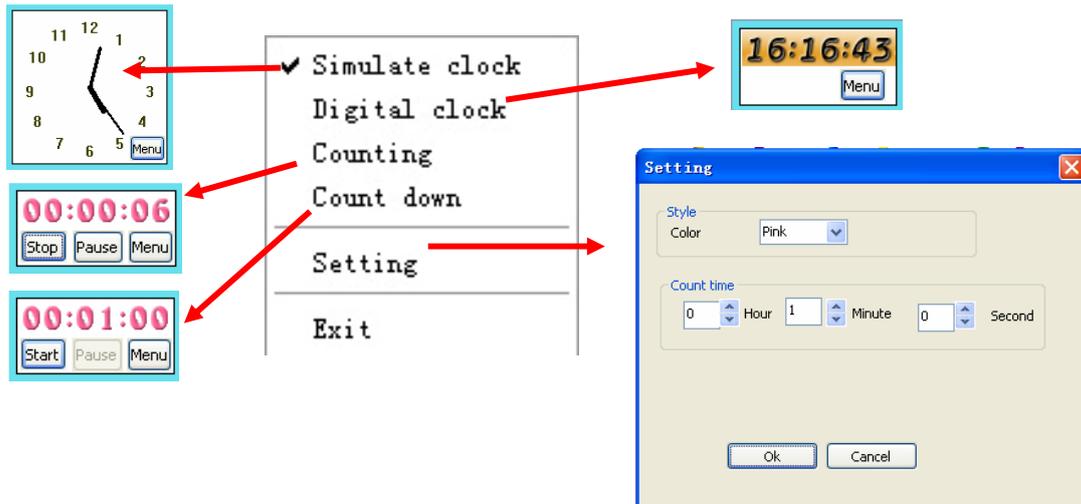
Magnifier through “tools-special tool-magnifier”, or click icon directly to activate the magnifier window. The part centered around the cursor can be enlarged in adjustable proportion. The attributes of the Magnifier can be set by Magnifier controlling menu. It is illustrated as below:



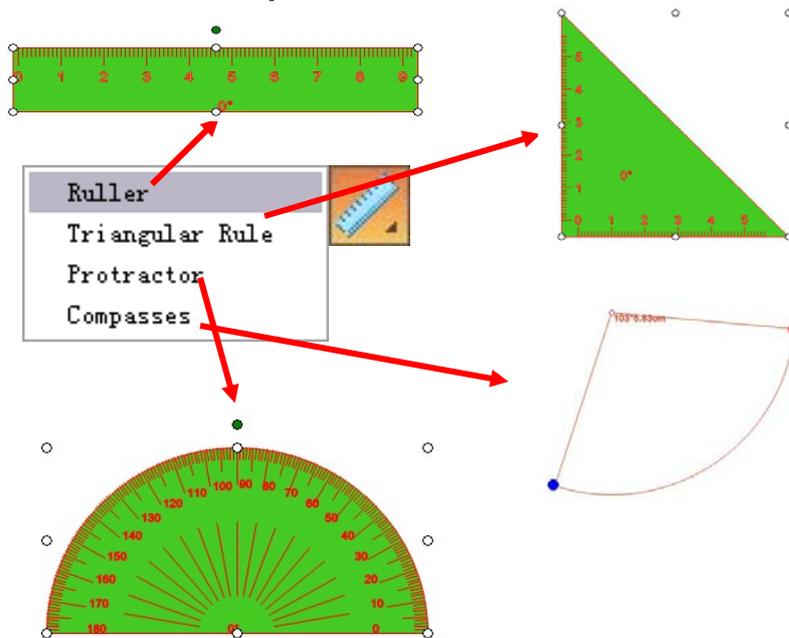
NOTE: Drag the magnifier to move around, click Exit to quit the function.

### 4.25.4 Clock

The Clock shows the time of the system, and can be used to count down or count time. The Clock window can be moved to any location, and its properties can be adjusted in the Setting.



#### 4.26 Application of Measure Tool (Ruller, Triangular Ruller, Protractor,Compasses)



Select a measure tool, and drag along on the screen. The selected measure tool will show on the screen accordingly.

Adjust the controlling points surrounding the tool to enlarge, contract, and rotate it.

Use any writing tool to draw along the scale of the measure tools, so as to get accurate line, angle, and arc.

### 5. FAQ

#### A. Why my writing is unable to be displayed on the screen?

- Please try another color which is different with the background.
- Please remove any other object away from the screen when writing.
- Please make sure that the software of Interactive Board is running.



**B. Why the Icon**  **displayed in the task bar at the right bottom of the screen?**

- The USB cable is in poor connection between the whiteboard and computer. Please make sure the connection is not loose.
- The USB cable is not of the original packing. The USB cable adopted is made of superior quality materials for Interactive Whiteboard application, which can not be substituted.
- Abnormal situation appears during installing the software. Please uninstall the software and restart the computer, then install the software again.
- USB cable connection between the computer and whiteboard is improper. Please refer to the user manual and correct the connection.
- If the icon  is not displayed in the taskbar at the right bottom of the screen, please re-start the server.exe and InteractiveBoard.exe.

**C. Is it necessary to do the position “locate” operation again after reinstalling the software of interactive whiteboard?**

No, it's not necessary. The system has remembered your last parameter of position locating.

**D. Is the content which is covered by window of “index page” lost?**

No, the content still exists there, it's just temporarily covered.

**E. How to know the working state of Whiteboard?**

When there is any touch on the board, If the light at the right bottom of the board will turn blue. It shows the whiteboard is working correctly. If the light keep still to be red, it shows the whiteboard may have problem in hardware.

**F. Why sometimes no change happens after changing the background color?**

It's probably that the background color is covered by another big size picture. So we can't see the color is changed.

**G. What kind of projector is required to equip with the whiteboard?**

All the projectors will be ok if only they meet the following 3 points:

- (1) it is front projector.
- (2) it can support the resolution of computer.
- (3) luminous flux  $\geq$  500 lumens, specific requirement depends on the room size.

**H. How to clean the Whiteboard surface?**

Gently wipe the whiteboard surface by clean wet cloth.

Note: Do wring the wet cloth, make sure the water won't soak into the frame.

## 6. Technical Parameters

Induction way: Infrared Sensor

Writing Method: finger or any object (pen, ferule)

Resolution: 1024 x 768, 1280 x 800, 1280 x 1024, etc..

Touch Accuracy: 4096\*4096

Electrical consumption:  $\leq 70\text{mA}$

Connection: USB2.0

Power supply: No external power supply needed

Operating Temperature:  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$

Operating Humidity: 10-90%

Storage Temperature:  $-40^{\circ}\text{C}$  to  $70^{\circ}\text{C}$

Storage Humidity: 20-93%