

# U-Pointer

## USER MANUAL & QUICK GUIDE

ANY KINDS OF DISPLAYS BECOME AN INTERACTIVE  
WHITEBOARD WITH U-POINTER

U-Pointer is an Interactive Whiteboard that adopts an image process technology. It captures U-Pointer Pen's movement on display and analyzes the movement. With U-Pointer, any kinds of displays, Projector, PDP, LCD, rear projection display and etc. becomes an interactive whiteboard with high quality and easiness.

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## SHIPPING CONTENTS

- 1. U-pointer:** Interactive Whiteboard Sensor.
- 2. Installation CD:** CD contains U-Pointer driver, i-Pro software and user manual.
- 3. Quick manual:** Short cut of how to use the U-Pointer.
- 4. U-Pointer Pen:** U-Pointer Pen is a pen type wireless mouse. Before using the pen, insert the batteries into the pen.
- 5. Mini USB Cable:** Connects the U-Pointer to PC.
- 6. Batteries:** AAA size batteries.
- 7. Extra Pen Tip:** 5 extra pen tips for each pen.

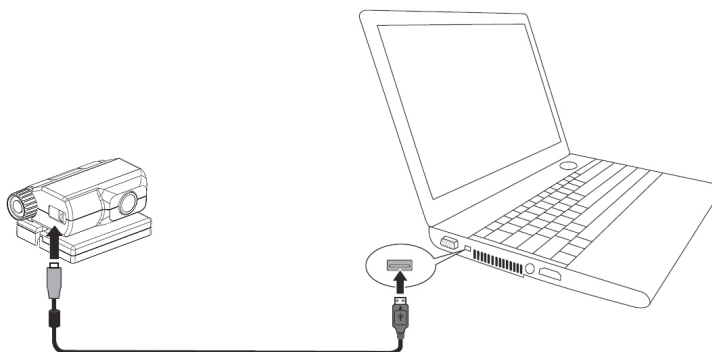


*Caution: When inserting the batteries into the U-Pointer Pen, make sure the battery polarities are correct.*

## CONNECTING THE U-POINTER TO PC

- Use the USB cable\* to connect the U-Pointer to PC.
- Plug the USB mini-B end into the U-Pointer and plug the USB type-A end into PC

\*A USB cable of 5 meters is provided. Use a USB repeater cable. If you need to extend the length.



## PEN ACTION

THE U-POINTER PEN PROVIDES THE FOLLOWING 4 ACTIONS:

**Click:** Touch an icon or a menu on the screen.

**Double Click:** Touch an icon or a menu on the screen two times.

**Right Button Click:** Touch an icon or menu for at least 1.5 seconds.

**Drag:** Touch and drag an object on the screen

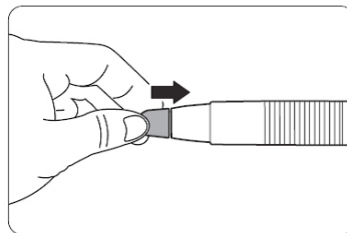
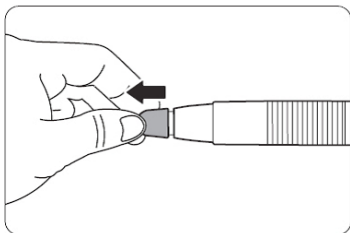
### • EXCHANGING THE PEN TIP

#### 1. Removing the pen tip

Hold the pen tip with your fingers. Shake and pull the pen tip out of the pen.

#### 1. Inserting the pen tip

Push the pen tip gently, but not abruptly.

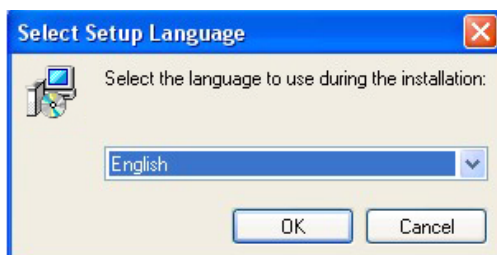


## DRIVER INSTALLATION

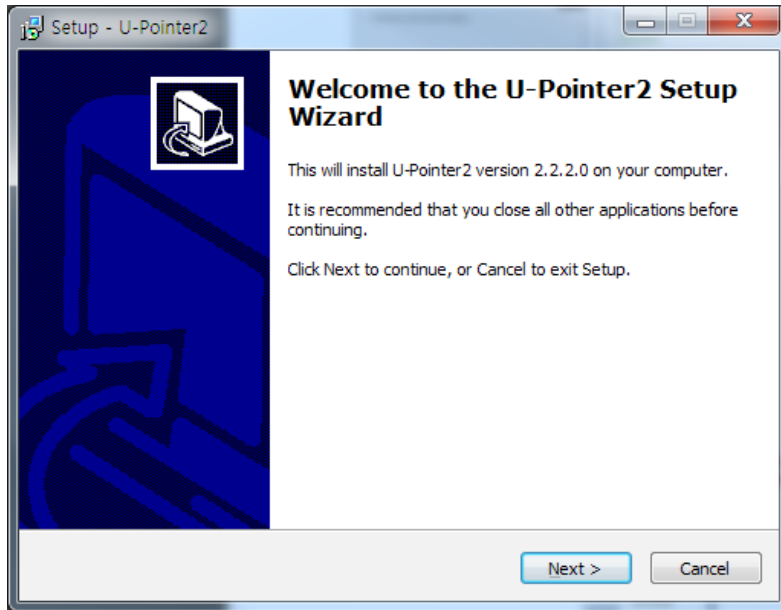
Insert the U-Pointer CD into your CD/DVD-ROM driver. The Installation assistant will run automatically. Follow the instructions on the screen. If the assistant does not run automatically, double click on the “setup.exe” under CD/DVD-ROM directory and the Installation assistant will display.

### 1. Click Install U-Pointer in the installation assistant

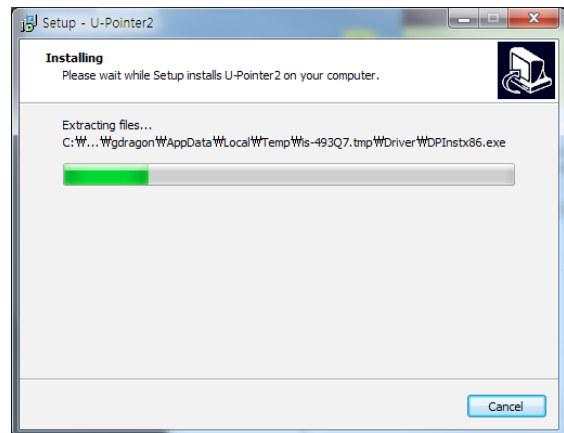
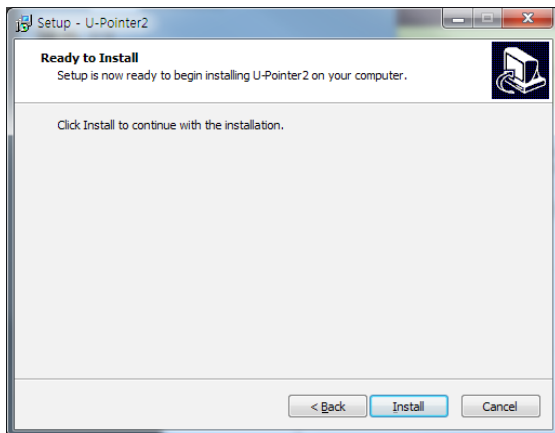
### 2. Select a language and click “OK”.



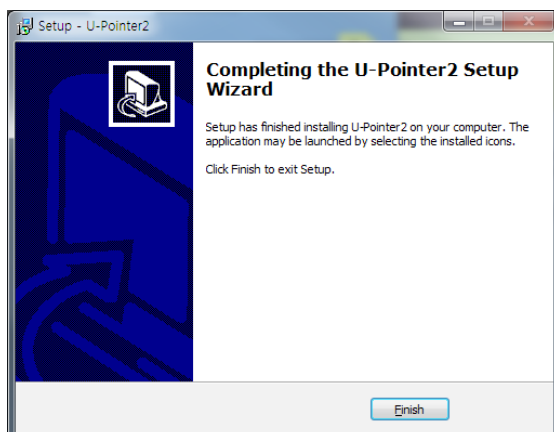
3. The installation dialog box will appear. Click next. During the installation process, it is recommended to close other applications.



4. Click Install, the installation begins

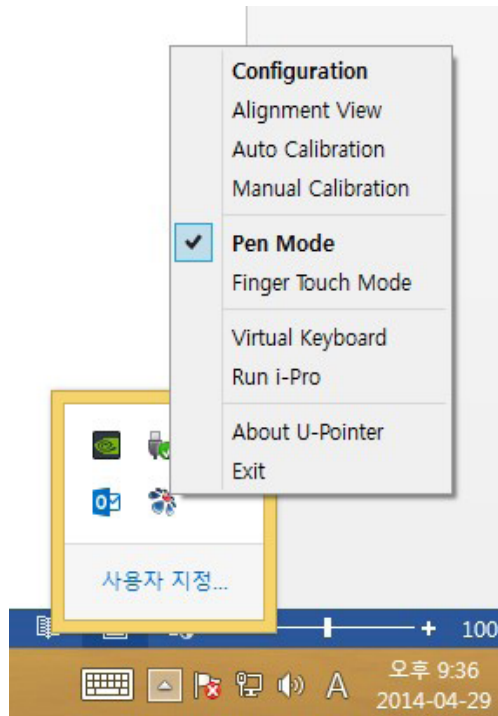


5. The installation ends and a dialog box will appear. Click "Finish."



After the installation is finished,

- **The U-Pointer icon will be created on the desktop.**
- **The installation folder will be created on C: directory.**
- **When running the U-Pointer, the U-Pointer icon appears on the system tray area.**
- **Click on the U-Pointer icon on system tray area and a popup menu will appear.**



When using the U-Pointer for the first time, the configuration window will appear on the desktop to help you configure the U-Pointer.

## CONFIGURATION SETTING

### THE U-POINTER CONFIGURATION

To use the U-Pointer, the proper setting of the U-Pointer configuration is needed. The Configuration setting window will help you to set up U-Pointer correctly.

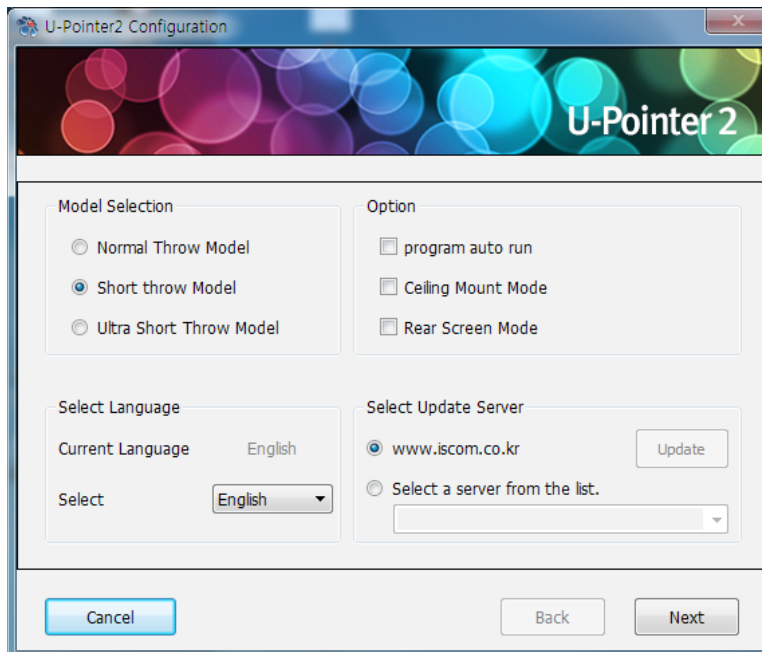
**1. U-Pointer configuration:** Select the U-Pointer type you're going to use.

**2. U-Pointer Language:** The default language is the same as the language for your operating system. If you want to change the language, click on and then language list will display. After selecting your preferred language, quit the U-Pointer and start the U-Pointer again.

### 3. U-Pointer Option:

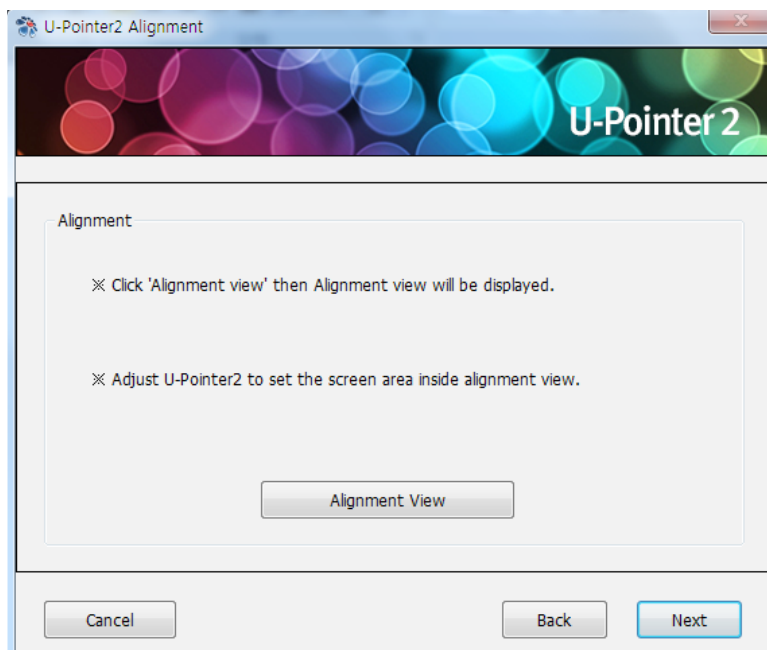
- Program auto run: Click this item if you want the U-Pointer to run automatically when Windows starts.
- Ceiling Mount Mode: Click this item if you mount the projector on the ceiling. When the projector is placed on the table, do not click this item.
- Rear Screen Mode: If the projector is installed on the rear screen system, click this item.

### 4. U-Pointer Update Server

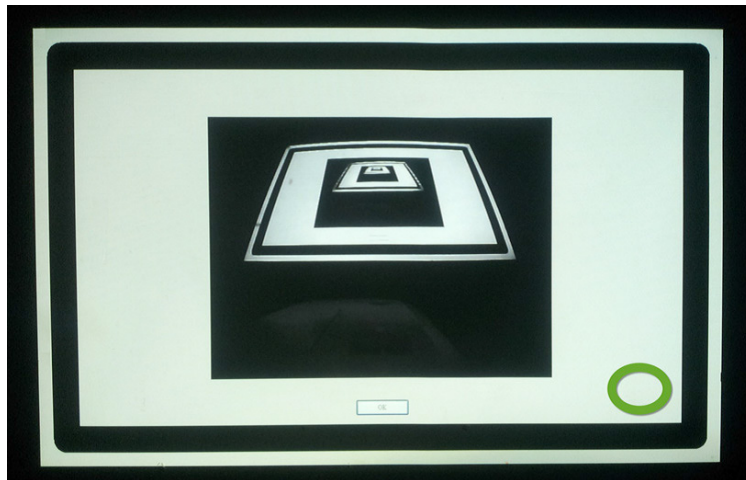


### ALIGNMENT VIEW

The U-Pointer Alignment function is to set the orientation of the U-Pointer to the screen.

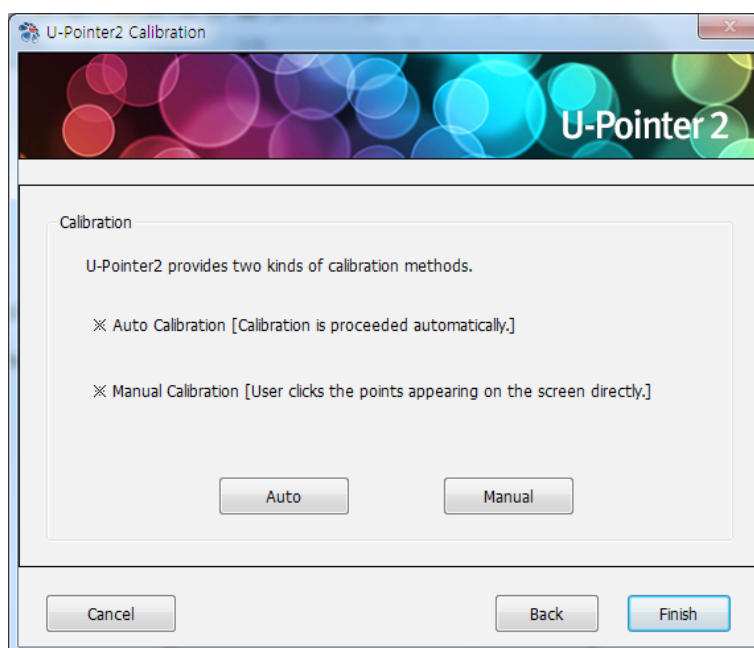


**Alignment View:** When clicking on the “Alignment View”, the screen image is displayed on the alignment view as illustrated.



## CALIBRATION

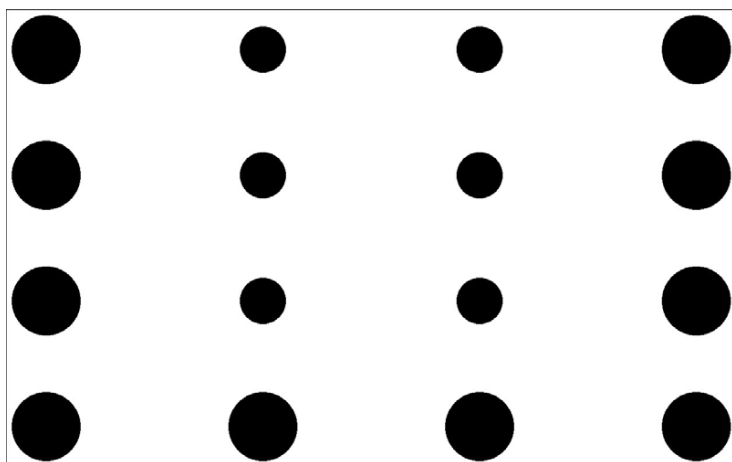
U-Pointer provides two kinds of calibration methods : auto calibration and manual calibration.



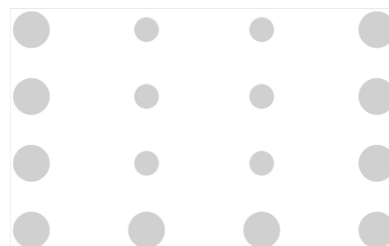
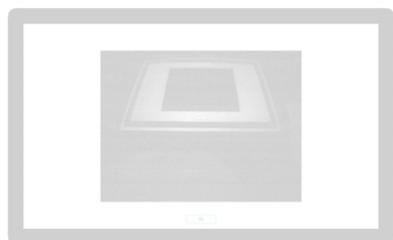
Auto calibration\* : click  on and the calibration process will run automatically.




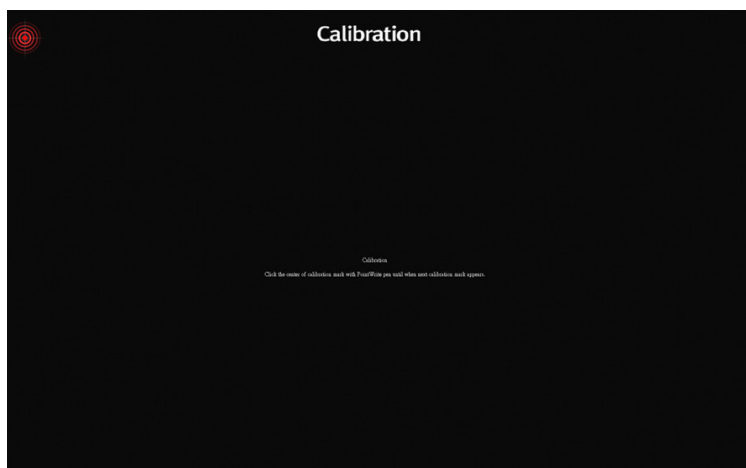
When you choose this method, white image is shown on the screen and the pattern image is displayed.




*\*. Due to excessive ambient light, auto calibration may fail or the accuracy level may drop. In this case, please execute the manual calibration.*

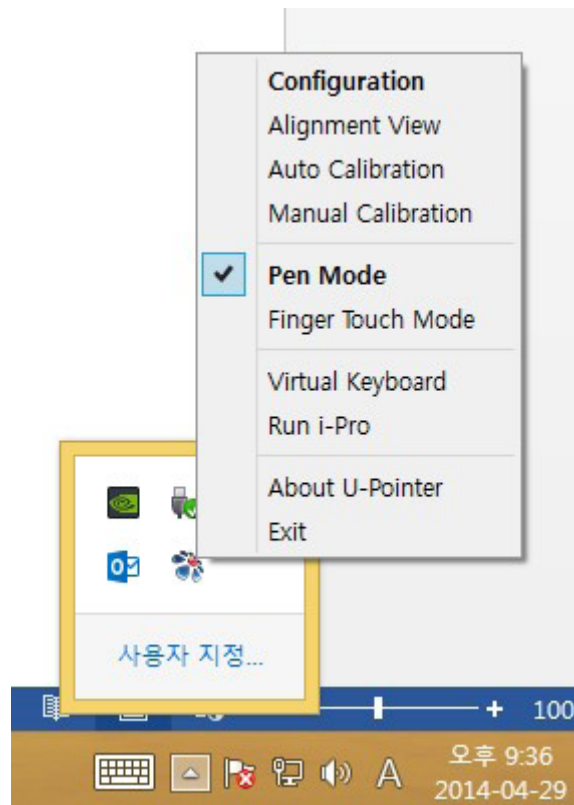


Manual calibration: click  on  and the calibration window will be projected on the screen. Use the U-Pointer pen to click on the center of calibration cursor immediately after it appears. Then the next cursor will display. Repeat this process until the last calibration cursor disappears.



## RUNNING THE U-POINTER

After you double click on the U-Pointer icon  on the desktop, the U-Pointer will initiate and the U-Pointer icon will be created on the system tray area. Right click on the U-Pointer icon on the system tray area and a pull-up menu appears.



**Configuration:** Choose this when you want to change the installation position of the projector.

**Alignment View:** See “Alignment View” on page 9 for details.

**Auto Calibration:** If the accuracy is not enough when using the U-Pointer, execute the auto calibration again.

**Manual Calibration:** If the accuracy is not enough when using the U-Pointer or the auto calibration fails, execute the manual calibration.

**Pen Mode:** Writing and touch are possible in this mode with electronic pen included in a product.

**Finger Touch Mode:** Finger Touch and writing are possible with laser module as an option.

**Virtual Keyboard:** If keyboard input is needed, click on the “Virtual Keyboard” and then keyboard will appear on the screen.

**Run i-Pro:** Choose this when you want to run the “i-Pro”.

**About U-Pointer:** This menu provides the U-Pointer version information. Click this menu, and then version information window will appear.

## SPECIFICATIONS

After you double click on the U-Pointer icon on the desktop, the U-Pointer will initiate and the U-Pointer icon will be created on the system tray area. Right click on the U-Pointer icon on the system tray area and a pull-up menu appears.

U-POINTER	
Model name	U-Pointer
Technology	Image Processing Technology
Refresh Rate	60 fps
Response Time	16.7 ms
Auto Calibration	Yes
Operating Distance	Follow Projector Specification
Multi-User	4
Multiple Operation	2 (Dual)
PC Connection	Mini USB
Power Source	PC USB Power
Max USB Cable Length	15 m (5 m USB cable + Repeater)
OS Supported	Windows: WinXP, Vista, 7, 8 / Mac: Snow Leopard or later
U-POINTER PEN	
Power	AAA Battery*2
Length	15 mm
Weight	35 g
Color	Black

*\*. The accuracy of auto calibration will be impacted depending on your environment.*

## TROUBLE SHOOTING

### 1. The U-Pointer pen doesn't operate as mouse on the screen after calibration.

#### **Check the connection is correct**

- Check the U-Pointer module is correctly connected to computer via USB cable.
- Check the USB device is detected by computer.

#### **USB signal is not stable**

- If you're using a notebook, please connect with AC power.
- If the length of USB cable exceed 10m, the signal repeater is necessary.

#### **The interference appears on the screen which impact U-Pointer pen's usage**

- Remove extra USB devices (ex.USB reader) on the computer.
- Remove the infrared devices like remote control and infrared microphone in front of the screen.
- Remove the reflected accessory like watch or metal necklace.
- Re-connect USB cable and calibrate again.

### 2. The Pen doesn't work when drawing

- Avoid any obstruction on the path of the camera view.
- Check the battery power of the pen.

### 3. Auto calibration fail.

#### **Check the alignment view**

- Check the projection pattern is well included from the camera view.

#### **Check the environment**

- If there is ambient bright shining directly to the screen, please use manual calibration to calibrate.

#### **Check the resolution is the same between PC and projector**

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Information of i-Pro4  
The latest information and software will be provided at the ISCommunications's website:  
<http://www.iscom.co.kr> or <http://eng.iscom.co.kr>  
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