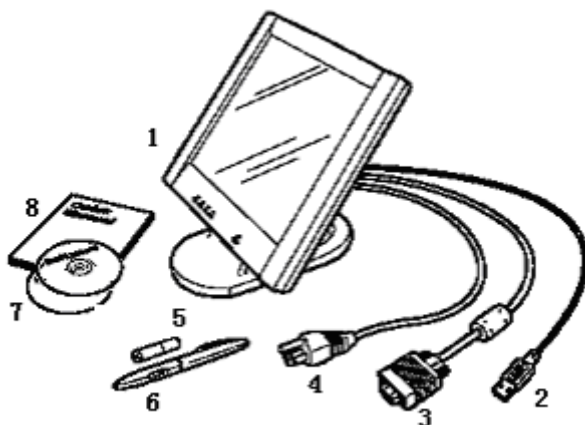


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Chapter 1. What is in the box



Electromagnetic LCD Writing Panel (1)

USB Cable (1)

VGA Cable (1)

Power Cord (1)
AAA Battery for Pen (1)
Electromagnetic Pen (1)
Installation CD (1)
Owner's Manual (1)

If any items are missing or damaged, contact the dealer where you purchased the panel immediately.

Chapter 2. System Requirements

Please check the contents of the box to make sure that the following parts are included.

Software:

Installation CD-ROM, it contains application Software setup and driver setup.

Hardware:

Electromagnetic LCD Writing Panel (1)
Electromagnetic Pen (1)
Power Cord (1)
VGA Cable (1)
USB Cable (1)

Additional Hardware:

If the user uses a single VGA output display card and wants to connect the LCD Writing Panel system to an external projection device, the following additional components are required.

VGA Distribution Amplifier (1) (not supplied by LWP-200)
Additional VGA cables (2) (not supplied by LWP-200)

System Requirements:

Operation System	Windows 98SE, Windows Me, Windows 2000, Windows XP
CPU	Pentium III 500MHz, Pentium III 1GHz as recommended
Peripherals	CD-ROM Drive, Sound Card, and Microphone
RAM	Minimum 128MB, 256MB as recommended
Display Card	Support 1024 x 768 (16-bit true color), Dual VGA Outputs or a VGA Splitter/Distributor
Data Port	USB ports (2)

Note: The LCD Writing Panel is only designed for XGA (1024 x 768) resolution. Please make sure that your display resolution is set to XGA (1024 x768) with 16-bit or 32-bit color depth.

Chapter 3. Product Introduction

The LCD Writing Panel is a breakthrough presentation product that incorporates the most advanced writing and demonstration technology to make presentation more powerful and interactive.

Central to the LCD Writing Panel system is the Electromagnetic LCD Writing Panel. Electromagnetic pen can be used to write on the surface of the panel and the written contents can be seen on the monitor immediately. All writings, drawings, predefined templates and the PC application screen are projected in real time to the output monitor or screen, making the LCD Writing Panel system a revolutionary and powerful presentation tool.

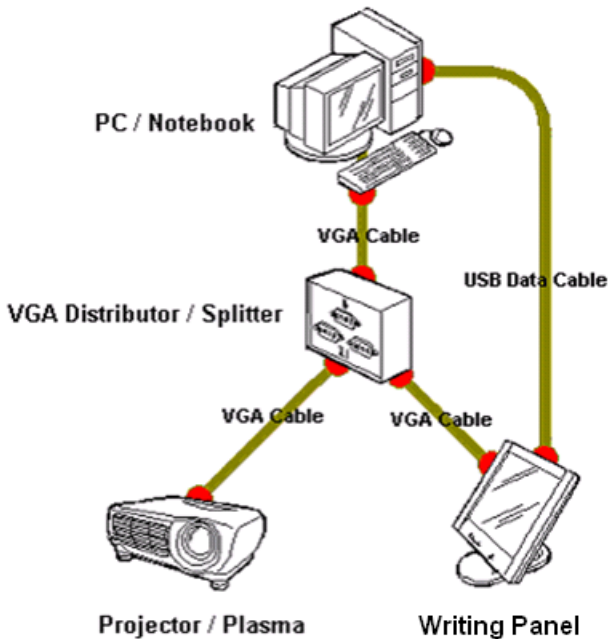
The LCD Writing Panel seamlessly works with projector, plasma screen, TV and other equipment to provide more convenient, interactive and effective presentation. It is perfect for school auditoriums, conference rooms, trade shows, symposiums and lecture halls.

The monitor of the LCD Writing Panel has an internal pressure sensor that reads the pressure from the user's pen. When used as a brush, the thickness of the pen stroke shown on the monitor is in correspondence with the pressure level placed on the monitor. The penmanship is reproduced in a digital format and it makes the user's writing looks smooth and even.

One of the LCD Writing Panel's powerful function is that it can record and play back the written record through Internet or Ethernet. It can also record all the details during a user's presentation.

Chapter 4. Setup

A. Connection Chart



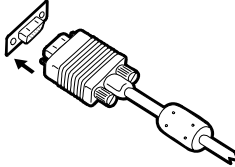
Notes: If the dual output display card is not used for the connection, VGA Distribution Amplifier and two VGA cables are required.

B. Setup steps

STEP 1:

1) If you are using a DUAL VGA output display card:

Connect the VGA cable of the LCD writing panel to one of the VGA output ports of your computer.



2) If you are using a SINGLE VGA output display card and a VGA signal distribution/VGA splitter (supplied by user):

Connect the VGA cable of the writing panel to one of the VGA output ports of your signal distribution/VGA splitter. And connect one end of another VGA cable (supplied by user) to a VGA output port of your computer, and then connect the other end of the VGA cable to the VGA input port of the VGA signal distribution/VGA splitter. (See the connection diagram above)

Since the LCD Writing Panel is highly sensitive to magnetic forces, please ensure no other electronic devices that produce a strong magnetic field are placed close to the LCD writing panel, for example, non-magnetic shielded PC desktop speakers, PC CRT monitor, and TV, etc, should not be placed near the LCD writing panel.

STEP 2: Insert the Power Cord into the socket of the LCD writing panel and then plug the Power Cord into the main power source (wall socket, floor socket, etc.).

STEP 3: Turn on the Power Switch on both your computer and the LCD writing panel.

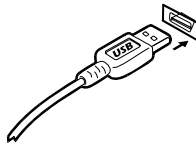
STEP 4: Installing the driver and application software.

1) Insert the Installation CD into your computer's CD-ROM drive, a dialog-box appears
(as shown)



- 2) Double-click "Writing panel software" for start installation, follow dialog-box messages and click "Next" to finish installation.
 - 3) Double-click "Writing panel Driver" for start installation, follow dialog-box messages and click "Next" to finish installation..
 - 4) Double-click "Microsoft DirectX9.0" for start installation, follow dialog-box messages and click "Next" to finish installation..
- After installation is finished, restart your computer.

STEP 5: Connect the USB cable of the LCD writing panel to one of your computer's USB ports.



STEP 6: Starting Application Software


Double-click the software icon on the desktop to start the application

software.




STEP 7: Place the battery (comes with the LCD writing panel package) into the electromagnetic pen. Make sure that the positive end (+) of the battery is pointing toward the pen tip.

STEP 8: Calibrating the LCD Writing Panel (Optional).

If you decide to calibrate the LCD Writing Panel, use your right mouse button to click the  “Calibration” icon located in the system tray



. Click the  icon with the writing pen and follow the on-screen instructions to finish the panel calibration.

Chapter 5. Electromagnetic Pen

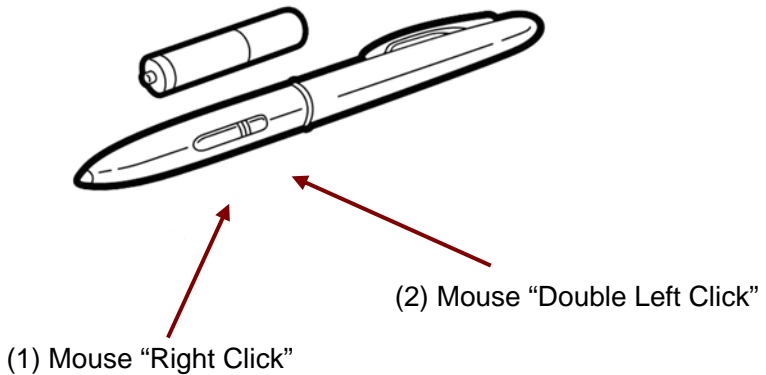
The LCD writing panel’s electromagnetic pen is your magic wand when delivering your presentation or lecture. It can totally replace the mouse and also act as your digital writing instrument. The electromagnetic pen is powered by an AAA battery. Before using the pen, please install a battery into the pen. Be noted that the positive end (+) of the battery should point toward the pen tip. A battery lasts for around 5 months. However, we suggest to change the battery every 3 months to keep it from slowing down in the midst of a presentation.

Operation Mode of the Electromagnetic Pen

- **When** the pen is used to write on the whiteboard/template, it functions as a pen, brush, or eraser depending on the selected function.
- **When** the pen is used to press the buttons on the application software toolbar, it functions as “clicking” the buttons.
- **When** the pen is used as a drawing tool (straight line, square, or circle), just tap the pen on the screen and drag it onto the desired location and then lift it up at the end point to create an image.

PC Mode of the Electromagnetic Pen

- **When** the pen is held close to the screen but not touching the screen, it operates like the movement of your mouse.
- **When** the pen touches/taps the screen, it functions as the “Left Click” of a mouse.
- **When** you tap and drag the pen, it functions as the “Dragging” action of a mouse.
- **When** you hold the pen close to the screen, and click the bottom of the switch on the side of the electromagnetic pen (1), it functions as the “Right Click” of a mouse.
- **When** you hold the pen close to the screen, and click the top of the switch on the side of the electromagnetic pen (2), it functions as the “Double Left Click” of a mouse.



Chapter 6. Features

1. Smooth and Fine Writing Display

With perfectly smooth and clean pen-strokes, the 17-inch LCD writing panel delivers a better quality script than what’s available on a traditional whiteboard. DigInk™ is the original line rendering technology that enables a true, complete and immediate display of your penmanship on the screen.

2. Writes on All Applications

You can write on any computer applications, such as lecture programs,

Internet web documents, and Office applications, etc.

3. Easy & Intuitive Interface

The 17-inch LCD writing panel offers an easy and intuitive “Tool Bar”. Any user, regardless his or her computer proficiency level, will find that the writing panel system is very easy to use. It has a location tool bar, which has been organized according to functions and well-designed icons of which functions are easy to recognize.

Retrieve any files you want, just like you would while using a mouse. You can use the electromagnetic pen as a magic wand to touch any icon and write notes on the panel as naturally as using a traditional pen and a piece of paper.

4. Real Time Demonstration

The 17-inch LCD writing panel provides powerful functions that can display your written contents on the panel and projector screen almost at the same time to make the LCD monitor or projector screen function as an electronic whiteboard.

Touch the panel with the magic electromagnetic pen to highlight any spot to explain and the image can be projected onto any available size screen. You can face the audience all the time so that you will never be left without knowing what’s happening behind your back.

5. Record, Download and Distribute at Any Time

The 17-inch LCD writing panel saves animation and audio in small-sized files, which optimizes the storage capacity of your computer. All the details of the presentation are recorded in “motion capture” together with the presenter’s voice for playing back at any time. LWP-200 file can be downloaded and distributed over networks.

Chapter 7. Software Operation Basics

Notes:

- Please check and make sure that the connection between the LCD writing panel and the computer’s USB port is corrected

before starting application software.

- Software and hardware installation sequence.
 1. Install the driver and application software.
 2. Connect the LCD writing panel to the computer's USB port.

Starting the Application

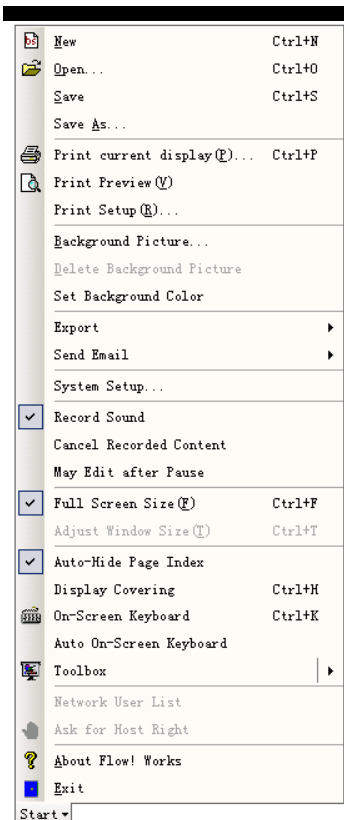


There are two ways to start the application:

1. Double click the **Flow Live** or **Flow Works** icon on the desktop to start the software.



2. Click "Start" → "All Programs" → "QOMO", then click "Flow Live" or "Flow Works" icon.



Introduction to the Flow Works Toolbar



1. Start Menu

Program main menu, it includes commands such as Create New File, Save File and Record, etc.

New: Click the New command to create a new document.

Open: Click the Open command to open an

existing document.

Save: Click the Save command to save current editing document.

Save As: Click the Save As command to save the document to another folder or in another format.

Print current display (P): Click Print (P) command to print the current page.

Print Preview (V): Click Print Preview (V) command to preview the current page before printing.

Print Setup (R): Click Print Setup (R) command Setup printer.

Background Picture: Click the Background Picture command to change the writing page and new page's background.

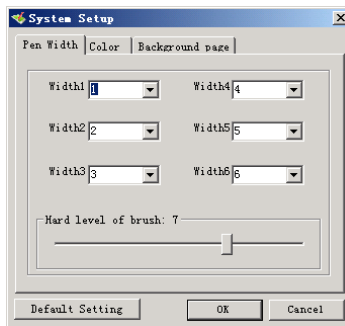
Delete Background Picture: Click the Background Picture command to delete the background picture.

Set Background Color: Click Set the Background Color command to change the background color.

Export: Export current page to a designated image format file(bmp、 gif、 jpg、 png、 ico、 tif、 tga、 pcx、 wbmp、 jp2、 jpc、 pgx、 ras、 pnm).

Send E-mail: Send the current page out by -mail.

System Setup: Click the System Setup command to pop-up the following window.




Pen Width: The six stroke widths on the toolbar can be changed by inputting numeric values inside the input boxes, which are at the right of the stroke buttons. The larger the numeric values, the thicker the stroke width. The six stroke widths should be increased sequentially.

Color: The three default colors on the toolbar can be changed by selecting different colors.

Background page: The background page can be changed by selecting different file.

Record Sound: Click the Record Sound command to record the sound synchronously.

Cancel Record Content: Click the Cancel Record Content command to clear the recorded AVI file.

May Edit after Pause: Click the May Edit after Pause command to pause the recording process at any moment, and click  to enter



the interface to edit and replay the recorded AVI file.

Full Screen Size (F): Click Full Screen Size (F) command to change full screen display to window display, the default display size is the left 1/4 of the whole screen.

Adjust Window Size (T): Click Adjust Window Size (T) command to adjust the window size.

Auto-hide Page Index: Click Auto-hide Page Index command to hide the writing pages automatically.

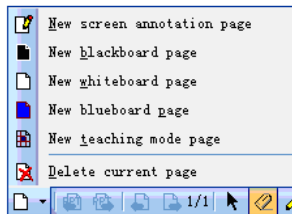
Display Covering: Cover any part of the screen for teaching or presentation purposes.

On-Screen Keyboards: Click On-Screen Keyboards command to open a on-screen keyboard under text mode, user can type in print.

Auto On-Screen Keyboards: Under Auto On-Screen Keyboards mode, the on-screen keyboard will open automatically when enter text mode.

Tool Box: Click Tool Box command to add or delete tools.

2. Page Mode




There are six selections: New screen annotation page, New blackboard page, New whiteboard page, New blueboard page, New teaching mode


page and Delete current page.


3. Index Window

Click this icon to show or high the index window at the furthest left of the screen.

 Lock/Hide Toolbar: Lock the page index window, easy to lookup and review the written contents.

 Delete Icon: Delete the current page.

 Zoom: Zoom in/out the index view.

 Display Restore: After zoom in/out or rove the writing screen, click this icon to restore to the initial screen status.

Move Page: Select one page with the pen, move the page to change the sequence of this page and make the page as the current displaying page.

4. 10/11 Page Up/Down

Click these two icons to turn to previous page or next page. The numbers means the current page number and the total page numbers.

5. Selector



Click this icon to select pen type, change pen color.

There are five writing tools: Pencil, Brush, Remark Pen, Texture Pen and intelligent pen.

Note: When you use the pencil, remark pen and texture pen to write, the stroke width will not vary along with the change of the writing pressure.

When you use the brush, the stroke width will vary along with the change of the writing pressure.

Intelligent pen: It can identify simply handwritten graphics and convert them to standard triangles, rectangles, squares, arrowheads or circles.

6.  **Stroke Color**

Click these three icons to change pen color quickly. These three colors can be changed System Setup menu.

7.  **Stroke Width**

Click this icon to change pen width. You can also set pen width through System Setup menu.


8.  **Word Recognition**

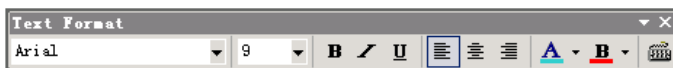
Click this icon to change the writing word to standard print word.

9.  **Basic Geometrical Drawing Tool**


Press the pen on the screen and move to drag a straight line, a rectangle or an ellipse. Lift the tip off the screen to stop drawing.

10.  **Text box**

The user can type any text on the writing page by clicking the Text Box icon. Click the  icon, then drag and move the mouse pointer to locate the position of the text and pop-up the formatting tool bar.

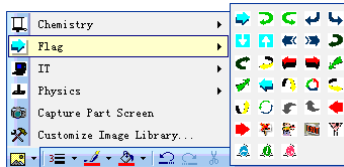



11.  **Insert Picture**

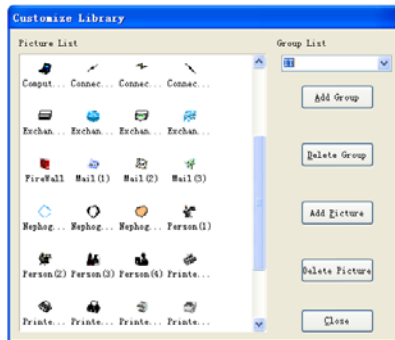
Click the  icon on the toolbar and select a picture from your computer to insert a picture to the current page, and then press OK. The inserted picture can be zoomed in/out or be erased with the eraser under the editing mode.

Click the black triangle icon to enter the secondary menu. The software provides a vector image gallery for various academic subjects. The

presenter can retrieve any image during presentation easily.



Click the **Capture Partial Screen** command, the current screen changes to the desktop interface automatically, and the mouse pointer changes to a cross-hair shape. Click on the screen, there will be a dashed line selection area, drag and move the pen to select the area you need to cut. The program will change back to the InSync Notes interface automatically. Move and drag the pen on the screen, the copied picture will be shown on the screen. Users can click the  icon to select the copied picture to move it around or zoom it in/out.



Click the **Customize Image Library** command, the above interface appears. The user can custom-define graphics based on his/her own needs or add graphics into any specific gallery folder or create a new group folder. For example: to create a new graphic group, the user just needs to input a new group name in the textbox appears on the upper right, and click “Add New Group” to add a new group. Then click “Add Picture” to add any picture into the new group. The software provides a large amount of vector graphic resources for various academic subjects. The user can add or delete pictures simply based on their needs through the “Add Picture”, “Delete Group” and “Delete Picture” commands.

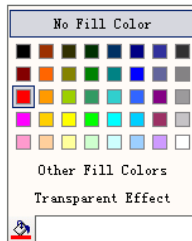
Notes: The software supports any general format image file.

12. Edit Mode

It provides the real time editing function. Under the edit mode, you can modify the written (or drawn) object or change its size, shape, location and color, or copy, paste the object.

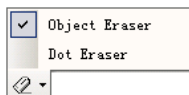
13. Background color

Select a color to change the background color.




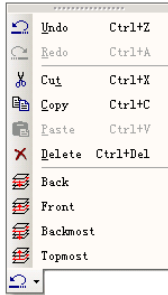
14. Eraser

The eraser can clear written contents. You can move the eraser icon to delete an entire stroke or dot, or move the eraser to draw a circle to select and delete the circled contents.




15. Undo the Last Action

The edit function menu will be activated when you click the  icon and select the written contents or picture. The function of each button from left to right is: Undo, Redo, Cut, Copy, Paste, and Delete.

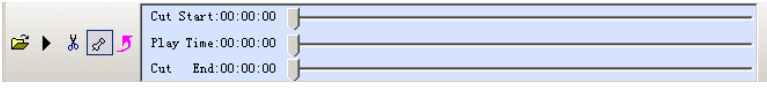



16.  00:00:00   Record AVI file

Click the  icon to start recording, and the counter runs. The written contents, annotation process and voice can be recorded into an AVI file. (Note: For voice recording, microphone equipment has to be connected.)



17.  Enter the AVI preview and editing interface


Click the  icon to enter the AVI preview and editing interface.



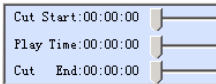
 **Open AVI file:** the file can be previewed and edited. If the current AVI file is recorded and saved, then the current file will be the player default AVI file.

 **Play/Pause AVI file**

 **Clip AVI file:** To set the start position by moving the glide of [Cut Start], then set the end position by moving the glide of [Cut End]. Click , the part between [Cut Start] and [Cut End] will be clipped.

 **Lock/Hide Toolbar**

 **Exit AVI preview and editing interface**



AVI File Preview/Clip

[Cut Start]: Start to clip the AVI file.

[Play Time]: Play the AVI file and indicate the course.

[Cut End]: Finish clipping the AVI file.

18. Rove

Click this icon to move the screen up/down/left/right


19. Zoom In/Out

Click these two icons to zoom in or zoom out the screen.

20. Network

21. Change Toolbar Position

Click  icon once to move the toolbar to the right side of the screen

vertically, click  icon again to move the toolbar to the bottom of the screen horizontally.

22. Interface Switch

Switch between the Flow Works software interface and the computer desktop interface.



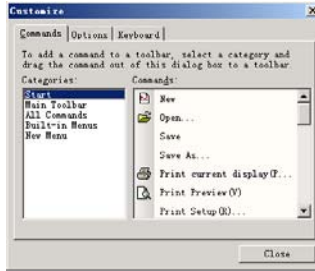
23. Desktop Toolbar

After switching to the computer desktop interface, there is a shortcut toolbar on the desktop. From left to right, each button's function is: Return to the Flow Works interface, Page mode selection and Exit Flow Works.

24. Customize

Right click on the toolbar, you can customize the toolbar and start menu

commands.

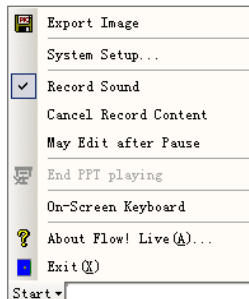


Introduction to the Flow Live Toolbar

Flow Live is designed for empower your teaching and presentation. The user can use the pen to annotate or write on the screen contents with any running file, which can be Micorsoft Word file、Excel file、PowerPoint file, Video media file or real time video file.

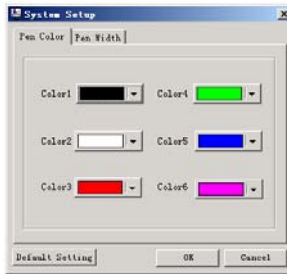


1. Start Menu




Export Image: Export current page to a designated image format file(bmp、gif、jpg、png、ico、tif、tga、pcx、wbmp、jp2、jpc、pgx、ras、pnm、etc.).

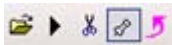
System Setup: Click the System Setup command to pop-up the following window, you can custom-define the pen color.



Record Sound: Click the Record Sound command to record the sound synchronously.

Cancel Record Content: Click the Cancel Record Content command to clear the recorded AVI file.

May Edit after Pause: Click the May Edit after Pause command to pause the recording process at any moment, and click  to enter the



interface to edit and replay the recorded AVI file. If you have not selected this command, the file can be edited and previewed only after the file is saved.

End PPT Playing:

On-Screen Keyboard: Click this command to display keyboard automatically when input text.

2. Directly write into Office file

It allows users to write contents directly into any MS-Office file. After writing, click the icon to convert the handwritten contents to a graphic inserted into the current Office document. It becomes a part of the current document and can be edited using Window's graphical editing tools.

3. PPT Slide/New Blackboard Page/New Whiteboard Page


The icon will be active once entering the PPT writing status, you can switch among 3 modes.

PPT Slide: Write or annotate on the current screen or PPT slide.

New Blackboard Page: Open a new blackboard page to write.

New Whiteboard Page: Open a new Whiteboard page to write.

4.  **PowerPoint Page-Up/Page-Down**

The icon will stay active while playing Microsoft PowerPoint slides. Click the  icon to page-up/page-down the slides and you can write or annotate at the same time.

5.  **Close PPT play**

6.  **Stroke Color**


You can select the stroke color. The six stroke colors can be set up using system **setup** command on the Start menu.




7.  **Stroke Width**

There are three different stroke widths for your selection.


8.  **Basic Geometrical Drawing Tool**

Press the pen on the screen and move to drag a straight line, a rectangle or an ellipse. Lift the tip off the screen to stop drawing.

9.  **Eraser**

Click the  icon to clear all the written contents; click  to clear selected contents: You can move the eraser icon to delete an entire stroke, or move the eraser to draw a circle to select and delete the circled contents. Click the  icon can switch from mouse operation status to writing status.

10.  **Pen Tools/Mouse Pointer**

There are three writing tools: Hard Pen, Brush and Highlighter. Click one of the pen icon can switch the application from mouse operation status to writing status. Click the  icon can switch the application from writing status to mouse operation status.





Note: When you use the hard pen and the highlighter to write, the stroke

width will not vary along with the change of the writing pressure. When you use the brush, the stroke width will vary along with the change of the writing pressure.

11. Undo and Redo

Click these two icons to undo or redo the last operation.

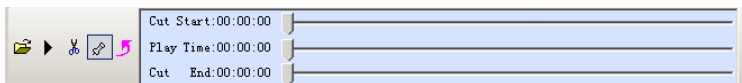
12. Record AVI file


Click the  icon to start recording, and the counter runs (The  icon changes to ). The written contents, annotation process and voice can be recorded into an AVI file. Click the  icon to pause the record process.

(Note: For voice recording, microphone equipment has to be connected.)



13. Enter the AVI preview and editing interface

Click the  icon to enter the AVI preview and editing interface.



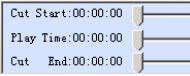
 **Open AVI file:** the file can be previewed and edited. If the current AVI file is recorded and saved, then the current file will be the default AVI file.

 **Play/Pause AVI file**

 **Clip AVI file:** To set the start position by moving the glide of [Cut Start], and then set the end position by moving the glide of [Cut End], click , the part between [Cut Start] and [Cut End] will be clipped.

 **Lock/Hide Toolbar**

 **Exit AVI preview and editing interface**




AVI File Preview/Clip

[Cut Start]: Start to clip the AVI file.

[Play Time]: Play the AVI file and indicate the course.

[Cut End]: Finish clipping the AVI file.


14. Video File Annotation


Click the  icon to open the file dialog box, select the file to be annotated, then pop-up the file player window and the playing toolbar




(There are four icons on the toolbar: Play, Pause, Stop Video and Exit Video File Annotation). You can annotate on the video image at any time while playing. This software supports most of file formats that Microsoft Windows Media player supports.

15. Real Time Video Annotate

If the computer is connected to a digital camcorder, digital camera 1394 port, document camera, or PCI capture card correctly,  appears on

the toolbar. If the connections are not correct, the icon will look like .

You can annotate on the live video image once the camera device is

correctly connected to the computer. The  toolbar will pop-up after entering the video capture window, however, the **Pause** button is unavailable.

16. Lock/Hide Toolbar

17. Exit Flow Live

Chapter 8. FQA and troubleshooting

Q1: What is the difference between a normal LCD and an Electromagnetic LCD Writing Tablet?

A: With the Electromagnetic LCD Writing Tablet, you can use an Electromagnetic Pen to control the cursor of your computer without using your mouse.

Q2: What display resolution does the LCD writing panel support?

A: It is designed for XGA (1024 x 768) resolution. Please set your display resolution to XGA.

Q3: Can I use other type of Electromagnetic Pen for the Electromagnetic LCD Writing Tablet?

A: No, it may harm the Electromagnetic LCD Writing Tablet.

Q4: Where can I buy an extra Electromagnetic Pen?

A: Please contact our authorized dealers if you wish to purchase any accessories, including the electromagnetic pen.

Q5: What is the cost for an extra Electromagnetic Pen?

A: Our authorized dealer would be delighted to help you with this. Please contact them for further details.

Q6: How long can the LCD writing panel record?

A: It depends on the resources of your computer- larger hard drive storage space allows for a longer recording period.

Q7: Can logos or images be imported on the different templates, i.e. music sheet or manuscript paper?

A: Yes, you may use any image file as a template as long as it is in a JPEG, BMP, or WMF file format and in an XGA (1024x 768) size. In order to streamline the storage of the templates, please save your custom templates.