YA-W72M/YA-W82M

User's Guide

- Be sure to read the "Safety Precautions" and "Operating Precautions" in the "Read this first!" document that comes with the CASIO Interactive Whiteboard, and make sure you use this product correctly.
- Keep this manual in a safe place for future reference.
- Visit the site below for the latest version of this manual.
  http://world.casio.com/manual/projector/

CASIO®

Contents

Introduction

What is an Interactive Whiteboard?

An Interactive Whiteboard is a system that consists of the following components: dot screen, documents that include special dot patterns*1, digital pen, a computer with special software (Interactive Whiteboard for CASIO, DSPD, Dot Pattern Printer for CASIO*2) installed, and a projector. Interactive Whiteboard for CASIO, which runs on a computer, acts as the front end of the Interactive Whiteboard system.

Interactive Whiteboard for CASIO is an education support tool that displays in real time*3 figures and text written on the dot screen with the digital pen. Since figures and text can be written with the digital pen directly onto the computer screen (Interactive Whiteboard for CASIO screen) image being projected onto the dot screen, students and presentation attendees are provided with easier to understand information that has greater visual impact.
A digital pen can even be used to write on documents printed on paper prepared with special dot patterns, with the handwritten text and figures immediately being shown on the dot screen. This makes handwritten information immediately available to your audience on the screen, as soon as you write it.

Dot screen

Write directly onto the dot screen.

Document printed on paper with special dot patterns

Writing on a document is also reflected on the screen.

*1 Documents printed using Dot Pattern Printer for CASIO. If you use Dot Pattern Printer for CASIO to print paper versions of the same contents (such as PowerPoint files) as the slides to be projected on the dot screen during a presentation, you can control the presentation (page changes, writing on pages, etc.) using digital pen operations on the printed pages.

A separate Anoto Qualified Printer or an Anoto Tested Printer is required to print documents with special dot patterns. Using another type of printer to print documents with special dot patterns can result in incorrect printing of dot patterns and abnormal colors.

Visit the website below for the latest information about Anoto Qualified Printers and Anoto Tested Printers (as of February 2013).

http://www.anoto.com/lng/en/pageTag/page:products/mode/sublist/documentId/1001/#Print

*2 Interactive Whiteboard for CASIO, DSPD, and Dot Pattern Printer for CASIO are based on Anoto digital pen and paper technology. Anoto digital pen and paper technology are protected by over 200 global patents, including those shown below, which are the property of Anoto AB.

US6663008, US7172131, US7248250, US7281668, JP3872498, JP3842283, CN1595440, SE517445, RU2256225, AU773011

For details about Anoto digital pen and paper technology, visit the Anoto website (http://www.anoto.com/).

*3 Certain communication environments, computer specifications, and other specifications may cause a certain amount of time lag before contents appear on the screen. Input data can be corrupted if digital pen communication is interfered with by another nearby digital device, wireless device, etc.

About this manual

This manual is divided into five chapters. The table below describes the main topics covered in each chapter.

Chapter	Main Topics
Chapter 1: Getting Ready	Chapter 1 explains the three steps below, which you need to perform to get ready to use Interactive Whiteboard. ① Preparing the digital pen ② Installing the software ③ Setting up the dot screen, projector and computer
Chapter 2: Using Interactive Whiteboard for CASIO	Chapter 2 covers the Interactive Whiteboard for CASIO functions described below. ① Presenting a slideshow using PowerPoint as-is (PowerPoint Control Mode). This part explains how to change the page and write information onto pages by using the digital pen to write onto the screen or onto a document page printed with special dot patterns. ② Presenting a slideshow using a special format (PPG file), which enables the use of a powerful collection of tools for writing on each page (Presentation Mode). This part explains how to change the page and write information onto pages by using the digital pen to write onto the screen or onto a document page printed with special dot patterns (including operation palette for students). ③ Writing directly onto a captured computer screenshot (Capture & Draw Mode). This part explains how to use the digital pen to write directly onto a computer screen shot being projected onto the dot screen.
Chapter 3: Using Dot Pattern Printer for CASIO	Chapter 3 explains the operations below, which are performed using Dot Pattern Printer for CASIO. ① Printing a PowerPoint file as a document with special dot patterns, which can be used to perform slideshow operations in the Interactive Whiteboard for CASIO PowerPoint Control Mode. ② Printing a printable file as a document with special dot patterns and output a PPG file. The PPG file can be used to conduct a slideshow in the Interactive Whiteboard for CASIO Presentation Mode, and the printed document can be used to perform slideshow operations in the Presentation Mode.
Chapter 4: Troubleshooting	Chapter 4 explains what you need to do when you run into problems while using Interactive Whiteboard. The information in this chapter is divided into three sections: "Digital Pen and Dot Screen", "Interactive Whiteboard for CASIO", and "Dot Pattern Printer for CASIO".
Chapter 5: Appendix	This chapter includes supplementary information about DSPD (digital pen driver software), how to care for and store the dot screen, how to uninstall and reinstall the software, and specifications.

Chapter 1: Getting Ready

This chapter explains what you need to do to get ready to use Interactive Whiteboard.
General steps for getting ready are described below.

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(1) Preparing the digital pen (page 10)

An Anoto digital pen is an input device for performing mouse operations on the computer whose screen image is being projected from a projector, and for writing or drawing on the dot screen or on documents printed on paper with special dot patterns. Perform the procedures under "Preparing the Digital Pen" (page 10) using the digital pen that comes with this system or an optionally available DP-301 digital pen.

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(2) Installing the software (page 18)

Download the required software from the CASIO website and install it on your computer.

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(3) Setting up the dot screen, projector and computer (page 23)

Set up the dot screen, projector, and computer in appropriate locations and then project an image of the computer screen onto the dot screen.

Preparing the Digital Pen
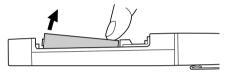
Perform procedures in this section using the digital pen that comes with this system or an optionally available digital pen.

To load a battery into the digital pen
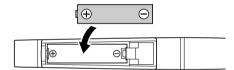
1. Cover the nib end of the digital pen with the pen cap.

2. Slide the lock lever downwards (away from the pen nib) and then open the battery cover.

Lock lever
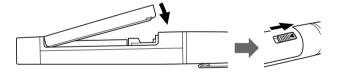
3. If there is a dead battery in the pen, remove it.

4. Making sure the positive (+) and negative (–) ends of the battery are facing in the proper directions, carefully load the battery into the pen.

5. Close the battery compartment cover and slide the lock lever upwards (in the direction of the pen nib).

Turning the Digital Pen On or Off

Removing the digital pen cap will cause it to turn on, and replacing the cap will cause it to turn off. Be sure to replace the cap when you are not using the digital pen. If you leave the cap off, digital pen power will turn off automatically if you do not perform any operation with it for about seven and a half minutes. To restore power, replace the cap and then remove it.

Replacing the Pen Nib

The digital pen comes with a stylus nib pre-installed. This means you do not need to replace the pen nib before using it for the first time. Replace the nib in the cases described below.

● To install the ballpoint pen refill for writing onto paper documents printed on paper with special dot patterns

● To replace a used up or damaged nib with a refill

To replace the pen nib

1. **Gently grasp the pen nib currently installed in the digital pen and carefully pull it out.**

   ● If you experience problems pulling out the nib, try using needle-nose pliers. Again, grasp gently and pull carefully.

2. **Taking care not to damage the refill pen nib, insert it into the pen.**

3. **Gently press the nib down on a piece of paper to ensure that the nib is inserted as far as it will go.**

Replacement Ballpoint Pen Refills and Stylus Refills

Use of the ballpoint pen refills below is supported.

● LAMY M21

● Cross 8518-4

Use of the stylus refills below is supported.

● PLUS 423-063

Establishing a Connection between the Digital Pen and Computer (Pairing)

To establish a connection between the digital pen and your computer, you need to register the digital pen on your computer as a Bluetooth device. This operation is called "pairing".

General steps for pairing are described below.

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(1) Check your computer system environment.
Check to make sure that your computer system environment satisfies the required conditions ("Minimum Computer System Requirements", page 17).

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(2) Connect a Bluetooth adapter to your computer.
Connect a commercially available Bluetooth adapter that supports the Bluetooth version 2.0 HID (Human Interface Device) profile to your computer. See "To connect a Bluetooth adapter to your computer" (page 13).

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(3) Pair the digital pen with your computer.
See "To pair the digital pen with your computer" (page 14).

Important!
- Microsoft stack (Microsoft Bluetooth Enumerator and Generic Bluetooth Radio) or TOSHIBA stack Bluetooth drivers can be used to establish a connection between the digital pen and your computer. If you are using a commercially available Bluetooth adapter connected to your computer, do not install the driver that comes with the adapter on your computer. Doing so can cause digital pen operational problems.
- If you want to use a Bluetooth adapter that is built in on your computer, check to see if the Bluetooth driver is Microsoft stack, TOSHIBA stack, or something else.
  – You can use the built-in Bluetooth adapter if its driver is Microsoft stack or TOSHIBA stack. In this case, turn on the built-in Bluetooth adapter and then proceed with the procedure under "To pair the digital pen with your computer" (page 14).
  – You will not be able to use your computer's built-in Bluetooth adapter if its driver is not Microsoft stack or TOSHIBA stack. In this case, turn off the built-in Bluetooth adapter and perform the procedure under "To connect a Bluetooth adapter to your computer" below.
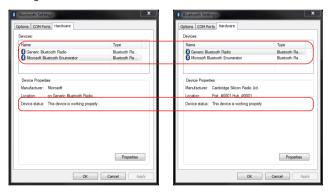
To connect a Bluetooth adapter to your computer

1. **Obtain a commercially available Bluetooth adapter and connect it to your computer.**
- The first time you connect a Bluetooth adapter to your computer, the Windows standard driver will be installed automatically.

2. **Click the Bluetooth icon that appears in your computer's task tray.**

- If the Bluetooth icon does not appear in the Windows XP task tray, perform the following operation on your computer: [Start] → [Control Panel] → [Bluetooth Devices]. Next, proceed with step 4, below.

3. **Windows XP, Windows 8: Select "Open Bluetooth Settings".**
Windows Vista, Windows 7: Select "Open Settings".
- This will display the "Bluetooth Settings" dialog box.

4. **Click the "Hardware" tab and check the points described below.**
- In the "Devices" list, click "Generic Bluetooth Radio", and then confirm that "This device is working properly." appears in the "Device Properties" text box at the bottom of the dialog box.
- In the "Devices" list, click "Microsoft Bluetooth Enumerator", and then confirm that "This device is working properly." appears in the "Device Properties" text box at the bottom of the dialog box.

5. **After confirming the above points, click [OK] to close the dialog box.**

To pair the digital pen with your computer

1. **Click the Bluetooth icon in your computer's task tray.**

- If the Bluetooth icon is not shown in the Windows XP task tray, perform the operation below on your computer.
  - ① [Start] → [Control Panel] → [Bluetooth Devices]
  - ② On the "Bluetooth Devices" dialog box that appears, click the "Options" tab, and then select the check box next to "Show the Bluetooth icon in the notification area".
  - ③ Click [OK] to close the dialog box.

2. **Click the Bluetooth icon and a menu will appear.**

Windows XP: Select "Add a Bluetooth Device".
- This will start up the "Add Bluetooth Device Wizard".
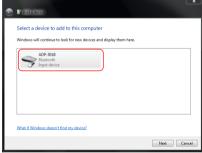
Windows Vista, Windows 7: Select "Add a Device".
- This will start up the "Add Device Wizard".

Windows 8: Advance directly to step 4.

3. **Windows XP: Select the check box next to "My devices is set up and ready to be found" and then click [Next].**
Windows Vista, Windows 7: Advance to step 4.

4. **Remove the cap from one digital pen that you want to pair with the computer.**
- Your computer will search for a Bluetooth device, and "ADP-301B" will appear on the dialog box.

Windows XP

Windows Vista, Windows 7

5. **Select "ADP-301B" and then click [Next].**

6. **Windows XP: Select "Use the passkey found in the documentation" and then input single-byte characters for the passkey.**
Windows Vista, Windows 7, Windows 8: Select "Enter the pairing code for the device" and then input single-byte characters for the passkey.

Windows XP
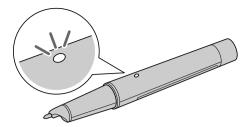
Windows Vista, Windows 7

- The pass keys for digital pens are shown below.
  Digital pen included with the YA-W72M or YA-W82M: 0000
  Optional CASIO DP-301 digital pen: 0000

7. **Click [Next].**
- Windows XP: After pairing is complete, "Completing the Add Bluetooth Device Wizard" is displayed.
  Windows Vista, Windows 7: After pairing is complete, "This device has been successfully added to this computer" is displayed.

8. **Windows XP: Click [Finish] to close the dialog box.**
Windows Vista, Windows 7: Click [Close] to close the dialog box.
Windows 8: Exit "PC Settings".

Digital Pen Operation Indicator

The current operational status of the digital pen is indicated by an LED.

- The digital pen LED is unlit when the cap is closed (pen is turned off) and immediately after you remove the cap (immediately after pen power is turned on).
- The table below describes the meaning of each pen LED status while the cap is removed.

When the LED is this:	It means this:
Unlit	Idle status
Alternating between on and off at three-second intervals	Bluetooth pairing standby
Unlit	Bluetooth connection standby
Lit three seconds	Bluetooth connection successful
Unlit	Bluetooth connection established
Flashing for eight seconds and then shutdown	Battery very low warning
Unlit	Power off

Installing the Software

The software described in the table below must be installed on a computer paired with the digital pen in order to use Interactive Whiteboard.

Software Name	Description
DSPD	DSPD stands for "digital pen streaming product driver". DSPD is driver software that makes it possible to send data picked up by a digital pen to Interactive Whiteboard for CASIO.
Interactive Whiteboard for CASIO	Interactive Whiteboard for CASIO is software that projects an image from the computer where it is running onto a dot screen, where mouse operations can be performed using a digital pen. It also makes it possible to perform PowerPoint presentation page operations by tapping the projection screen with a digital pen, and to write with the digital pen into files. In addition, the digital pen can be used to perform pen operations and to write on special paper with dot patterns that was printed using Dot Pattern Printer for CASIO.
Dot Pattern Printer for CASIO	Dot Pattern Printer for CASIO is a virtual printer driver that can be used to print documents that embed special dot patterns into PowerPoint, Word, and other types of documents so they can be used in an Interactive Whiteboard for CASIO presentation, and saves them as PPG files[*1].

*1 Special file format that can be opened in the Presentation mode (page 41) of Interactive Whiteboard for CASIO.

Minimum Computer System Requirements

The table below describes the minimum computer system requirements for running the software described above.

Operating Systems: Microsoft Windows® 8
Microsoft Windows® 7 SP1
Microsoft Windows Vista® SP2
Microsoft Windows® XP SP3 (32bit)

CPU: Intel® Core 2 Duo 2.0GHz minimum

Memory: At least 1GB as well as memory recommended for the operating system being used.

Display: 1024 × 768 (32-bit color) minimum

Hard Disk: At least 350MB of free space available

Digital Pen: CASIO DP-301 (Manufactured by Anoto AB)

Bluetooth: Bluetooth Version 2.0 Class 2
Bluetooth adapter that supports HID (Human Interface Device) profile required.

Bluetooth Stack: Microsoft Bluetooth stack, TOSHIBA Bluetooth stack

Application: PowerPoint® 2003/2007/2010
(Required when using the Interactive Whiteboard for CASIO PowerPoint Control Mode.)

Minimum Computer System Precautions

● Configuring a computer system that meets the minimum requirements described above does not necessarily guarantee that all hardware will operate normally.

● A system that does not satisfy the above minimum requirements or running other applications at the same time as using the applications of this system can produce results that are different from those described in this manual.

● Administrator rights are required to install software on your computer.

● Up to four digital pens can be used simultaneously at one time. However, only one pen can be used in the PowerPoint Control Mode.

● Simultaneous use of other Bluetooth devices and/or use of more than four digital pens can produce results that are different from those described in this manual.

To install the software

1. Go to the CASIO website (http://www.casio-intl.com/support/download/).

2. Download the zipped file of Interactive Whiteboard software.

3. Double-click the downloaded zip file to open it.

4. Using Windows Explorer, drag the "setup_en" folder from the zip file to your computer's local disk.

Important!
● Do not delete the "setup_en" folder, even after installation of all of the software is complete. You will need it if you ever want to uninstall or re-install the software in the future.

To start up the setup launcher

1. **Exit all programs currently running on your computer.**

2. **Open the Interactive Whiteboard software "setup_en" folder and then double-click "CASIO_InteractiveWhiteboardsetup.exe".**
   ● Interactive Whiteboard for CASIO Setup Launcher will start up and display the dialog box shown below.

[Install Interactive Whiteboard for CASIO] becomes enabled after the DSPD is installed.
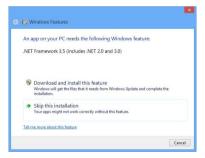
Important!
   ● A Windows message dialog box may appear in place of the Setup Launcher when you perform the above operation. What you need to do depends on your computer's operating system.

● **Windows 8**
   If your computer does not have .NET Framework 3.5 installed, a Windows Features dialog box like the one shown below may appear when you perform step 2, above.

If this happens, perform the steps below.
(1) Connect your computer to the Internet (if it is not already connected).
(2) If the "Program Compatibility Assistant" dialog box appears, click "Install using compatibility settings".
(3) On the Windows Features dialog box, click "Download and install this feature".
(4) When the "The following feature was successfully installed:" message appears, click the [Close] button.

● **Windows XP**

If the computer does not have .NET Framework 2.0 Service Pack 2 or higher installed, the following error message will appear on its display at this time: "The application failed to initialize properly". If this happens, perform the procedure under "To install .NET Framework" (page 22) to start up the setup launcher.

To install the DSPD

1. Perform the procedure under "To start up the setup launcher" (page 19).

2. On the Interactive Whiteboard for CASIO Setup Launcher window, click [Install DSPD].

● After installation is complete, [Install DSPD] will change to [Uninstall DSPD].

3. Click [Exit] to close the window, and then restart your computer.

To install Interactive Whiteboard for CASIO

1. If the Interactive Whiteboard for CASIO Setup Launcher window is not currently displayed, perform the procedure under "To start up the setup launcher" (page 19).

2. On the Interactive Whiteboard for CASIO Setup Launcher window, click [Install Interactive Whiteboard for CASIO].

● Carefully read the contents of the end user license agreement that appears.

3. To agree to be bound by the terms of the license agreement and start installation, click [I agree].

● Note that you will not be able to use Interactive Whiteboard for CASIO unless you agree to be bound by the terms of the license agreement.
● Clicking [I agree] will start installation.
● After installation is complete, [Install Interactive Whiteboard for CASIO] will change to [Uninstall Interactive Whiteboard for CASIO]. Also, the [Uninstall DSPD] option will become disabled at this time.

4. Click [Exit] to close the window, and then restart your computer.

To install Dot Pattern Printer for CASIO

1. If the Interactive Whiteboard for CASIO Setup Launcher window is not currently displayed, perform the procedure under "To start up the setup launcher" (page 19).

2. On the Interactive Whiteboard for CASIO Setup Launcher window, click [Install Dot Pattern Printer for CASIO].
   ● Carefully read the contents of the end user license agreement that appears.

3. To agree to be bound by the terms of the license agreement and start installation, click [I agree].
   ● Note that you will not be able to use Dot Pattern Printer for CASIO unless you agree to be bound by the terms of the license agreement.
   ● Clicking [I agree] will start installation.
   ● After installation is complete, [Install Dot Pattern Printer for CASIO] will change to [Uninstall Dot Pattern Printer for CASIO].

4. Click [Exit] to close the window, and then restart your computer.

📝 **Note**
   ● Depending on the operating system running on your computer, clicking [I agree] in step 3 of the procedure above may cause the dialog box shown below to appear. In this case, click [Continue Anyway].

   ● Depending on the operating system running on your computer, clicking [I agree] in step 3 of the procedure above may cause the "Windows Security" dialog box shown below to appear. If it does, click [Install this driver software anyway].

To install .NET Framework

1. In the "dotnet" folder located inside the "setup_en" folder, double-click "dotnetfx20.exe".

Note
- The next two steps are not required if you are running the Windows XP English version.

2. From the Microsoft Download Center, download the .NET Framework 2.0 Service Pack 2 Language Pack that matches the language of the Windows XP version your computer is running.

3. Install the Language Pack you downloaded.

Checking for Proper Installation

After installing all of the software, restart your computer and check the points below.

- Whenever you start up your computer, DSPD will start up automatically and become resident in your task tray. If DSPD is installed correctly, the DSPD icon ( ) will be displayed in the task tray.

- If Interactive Whiteboard for CASIO is installed correctly, the Interactive Whiteboard for CASIO icon will be displayed on your computer desktop.

- If Dot Pattern Printer for CASIO is installed correctly, "Dot Pattern Printer for CASIO" will be displayed in the "Printers" list on the print dialog box that appears when you execute the [Print] item in an application (usually on the [File] menu).
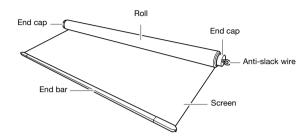
Note
- The first time you start up Interactive Whiteboard for CASIO and the first time you execute a print operation with Dot Pattern Printer for CASIO, you will be prompted for input of the serial key. The serial key is located in the Software License Certificate that comes with this system.

Setting Up the Dot Screen, Projector, and Computer

This section explains how to connect a computer that has the required software installed to a projector, and how to project computer screen images onto the dot screen.

Dot Screen Part Names

Setting Up the Dot Screen for Projection
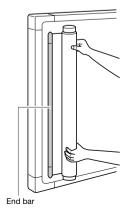
Important!
- The dot screen that comes with CASIO Interactive Whiteboard is designed for magnetic adhesion to a metal wall, blackboard, or other appropriate surface. Do not attempt to attach it to a surface that is soiled with dust or other matter, or a surface that does not allow magnetic adhesion.
- To keep the dot screen from falling if it detaches from the mounting surface due to impact, be sure to use the provided safety hook to secure the dot screen to the surface. For details, see steps 4 and 5 of the procedure under "To set up the dot screen for projection" below.

To set up the dot screen for projection
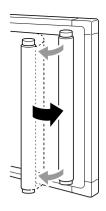
1. **Remove the dot screen from the screen case and then unhook the anti-slack wires on either end from the end bar.**

2. **Affix the magnetic end bar of the dot screen to a vertical surface (metal wall, blackboard, etc.) and gradually unroll the screen.**
- While pressing the roll against the surface, slowly rotate it to unroll the screen.
- Note that you will not be able to adjust the position of the screen while it is unrolled. To reposition the screen, first roll it back up onto the roll. Pulling the dot screen from a surface without rolling it up or allowing it to fall from a surface can result in irreparable creases in the dot screen.

End bar
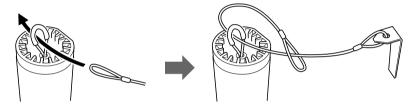
3. **Completely unroll the screen and affix the magnetic roll to the metal surface.**

- Check to make sure that the dot screen will not separate from the surface to which it is affixed when you release the roll.
- Note that when the screen is cold it may not flatten out completely, which makes it very possible that it will become detached and fall from the surface you attaching it to.
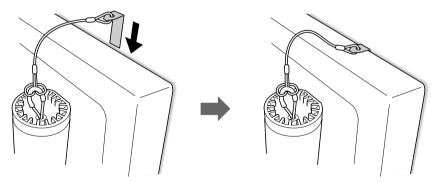
4. **Pull out the anti-slack wire of the top end cap and pass the safety hook wire through the loop.**

5. **Secure the safety hook to the surface.**

- If you are affixing the dot screen to a blackboard that is mounted on a wall, insert the safety hook into the space between the blackboard and the wall as shown in the illustration below.
- If you are affixing the dot screen to a surface where there is no space that you can use for the safety hook, secure the safety hook to the wall using the screw that comes with the screen.

- Pull on the safety wire to confirm that the hook is secure.

Projecting a Computer Screen Image onto the Dot Screen

✎ **Note** ───

- Do not perform the procedure below until you have completed all of the steps under: "Preparing the Digital Pen" (page 10), "Installing the Software" (page 17), and "Setting Up the Dot Screen, Projector, and Computer" (page 23).
- For detailed information about projector and computer operations, refer to the projector and computer user documentation.

1. Set up the projector in a location where it can project onto the dot screen.

2. Use a cable to connect the projector's image input terminal to the computer's video output terminal (RGB output, HDMI output, etc.)

3. After checking to make sure that a Bluetooth adapter is connected to the computer turn on the computer and projector.
- If you connect a Bluetooth adapter while your computer is running, you will need to perform the steps below on your computer to restart DSPD.
  ① In your computer's task tray, right-click the DSPD icon (🖼). On the menu that appears, click "Exit".
  ② Windows XP, Vista, 7:
    On your computer, perform the following sequence:
    Click [Start] → [All Programs] → [dnp] → [dspd] → [dspd].
    Windows 8:
    On the Start screen, click the [dspd] tile.

4. On the projector, adjust the zoom setting and adjust the location of the projector so the image it is projecting fits within the dot screen area.

5. On the projector, configure the required settings to specify video output from the computer as the input source.

At this point you have completed all the steps required to prepare the Interactive Whiteboard for use. In the next chapter, you will learn about the powerful features and functions provided by the Interactive Whiteboard.

🔑 **Important!** ───

- Note that even if the projector is projecting an image of the computer screen onto the dot screen, you will not be able to perform digital pen operations unless Interactive Whiteboard for CASIO is running.

Chapter 2: Using Interactive Whiteboard for CASIO

This chapter provides detailed explanations about how to use the features and functions of the Interactive Whiteboard when conducting presentations. Operations are mainly performed using Interactive Whiteboard for CASIO software running on a computer.

Interactive Whiteboard for CASIO Overview

This section provides an overview of what Interactive Whiteboard for CASIO (IWB for CASIO) allows you to do, along with initial settings (product registration and calibration) you need to configure and basic operational procedures.

Interactive Whiteboard for CASIO Modes

IWB for CASIO has four modes, each of which is described below.

Mouse Control Mode
This mode lets you use the digital pen in place of a mouse to perform operations directly on the image being projected onto the dot screen.

PowerPoint Control Mode (Supports use of one digital pen.)
This mode is for conducting slideshow presentations of PowerPoint files using PowerPoint. IWB for CASIO can be used to perform slideshow operations (page changes, writing on pages, etc.) with the digital pen on the dot screen or on printed documents with special dot patterns.

Presentation Mode (Supports simultaneous use of up to four digital pens.)
This mode is for conducting presentations using special format (PPG) files generated from PowerPoint, Word, PDF, and other types of files. This mode supports the operations described below.
● Slideshow operations (page changes, writing on pages, etc.) with the digital pen on the dot screen or on printed documents with special dot patterns.
● As with PowerPoint file slideshow presentations, the Pen tool or Marker Pen tool can be used for writing into the image. The following operations are also supported: shape, line, and arrow drawing; image file pasting; relocation, zoom, and delete of objects inserted into a page; appending of a blank page at the end of the slideshow, etc.
● Saving of content inserted during a slideshow to a PPG file. After re-opening a PPG file, inserted content can be edited (relocated, zoomed, deleted) as desired.
● A choice of slideshow views: Full-screen view or window view.

Capture & Draw Mode (Supports simultaneous use of up to four digital pens.)
The Capture & Draw Mode lets you capture the computer screen image (being projected onto the dot screen), and then write or draw figures into the captured image using the digital pen. Note that IWB for CASIO toolboxes and windows are not included in the captured image. Captured images containing inserted data can be stored as editable format (DST) files, or as non-editable image (png, jpg, or bmp) files.

Registering Your Product (Serial Key Input)

The first time you start up IWB for CASIO, a serial key confirmation dialog box will appear. This dialog box will keep on appearing with each startup until you input the serial key. The serial key is located in the Software License Certificate that comes with this system. The serial key confirmation dialog box will stop appearing once you input the serial key.

To input the serial key

1. **On your computer desktop, double-click the Interactive Whiteboard for CASIO icon.**

2. **When the serial key confirmation dialog box appears, click [Input Serial Key].**
- This will display a dialog box for inputting the serial key.

3. **Type the Interactive Whiteboard for CASIO serial key, which is included on the Software License Certificate, and then click [Register].**
- This starts up Interactive Whiteboard for CASIO and displays the main toolbox in the upper right corner of the screen. The Interactive Whiteboard for CASIO icon ( ) will be displayed in the task tray.

Main toolbox

- Next, perform the procedure described in "Calibration" below.
- If you want to exit IWB for CASIO, click the close ( ) button in the lower right corner of the main toolbox.

Calibration

Calibration is a process that teaches IWB for CASIO the projection position of the computer screen image on the dot screen. After you complete the calibration process, you will need to perform it again when there is a change in any one of the factors listed below.
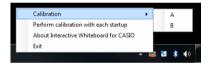
- Dot screen setup position
- Projector setup position
- Projected image size setting
- Computer display settings (resolution or number of displays)

To perform calibration

1. **If IWB for CASIO is not running, double-click the Interactive Whiteboard for CASIO icon on your computer desktop to start it up.**

2. **Remove the cap from the digital pen.**

3. **Project the screen image from the computer onto the dot screen.**
- If there are multiple display devices (including projectors) connected to the computer, check if the projector is the computer's primary display device or secondary (or other) display device.
- If the projector is the computer's primary display device, you can start calibration simply by tapping the dot screen with the digital pen only. In this case, tap the dot screen with the digital pen and then jump to step 7 of this procedure. Otherwise, proceed with step 4, below.

4. **In the computer's task tray, click the Interactive Whiteboard for CASIO icon ( ).**

5. **On the menu that appears, select "Calibration".**

6. **On the sub-menu that appears, select the display device (projector) that you want to calibrate.**
- If the projector is the only display device connected to the computer or if the projector is connected to a laptop computer and an image of the laptop computer's screen is being projected, "A" will be the only option displayed on the sub-menu. In this case, select "A".
- The sub-menu will appear when there are two display devices (for example, laptop computer and projector, etc.) connected to the computer and the display device screen is expanded. Select "A" if the projector is the primary display device, or "B" if it is the secondary display device.

Calibration	▶	A
Perform calibration with each startup		B
About Interactive Whiteboard for CASIO		
Exit		

- Selecting the correct letter on the sub-menu will cause the letter to appear in the center of the dot screen, along with a calibration mark in the upper left corner.

A

Note
- If the letter in the center of the dot screen is different from the one you selected on the "Calibration" sub-menu and no calibration mark is displayed, it means that you selected the wrong display device.
  If this happens, click the close (✕) button in the lower right corner of the main toolbox and perform this procedure again starting from step 1.

7. **Tap the center of the calibration mark once with the digital pen.**
- The position (coordinates) of the location where you tapped will be recorded when you remove the digital pen from the dot screen.

8. **With each tap, a calibration mark will appear in the lower left, upper right, and then lower right corners of the dot screen. Tap the center of each mark once with the digital pen.**

● Calibration is complete when you tap the fourth calibration mark.

To re-perform calibration

Perform the procedure under "To perform calibration", starting from step 4. Even while calibration marks are displayed, you can restart calibration by going back to step 4 under "To perform calibration".

Performing Calibration after Each Startup

You can configure IWB for CASIO to execute the calibration process whenever the dot screen is tapped after startup. To do this, perform the steps below.

① Click the Interactive Whiteboard for CASIO icon (👥) in the computer's task tray.
② On the menu that appears, select "Perform calibration with each startup" so a check mark appears next to it.

When this option is selected, the currently configured calibration information is discarded when you exit IWB for CASIO. You should select this option if you frequently need to move the dot screen and/or projector between presentations.

If there is no check mark next to "Perform calibration with each startup" (indicating that the option is disabled, which is the initial default setting), calibration information produced by the last calibration process is retained in memory. This means that tapping the dot screen will not start the calibration process after you start up Interactive Whiteboard for CASIO.

🔖 **Important!**
● If the projector is not the computer's primary display device, you will need to perform the procedure under "To perform calibration" (page 28) as required, even if there is not check mark next to the "Perform calibration with each startup" option.

Basic Operations

This section explains how to start up and exit IWB for CASIO, how to use the main toolbox, and how to perform digital pen operations in the Mouse Control Mode.

To start up Interactive Whiteboard for CASIO

Use any one of the following operations.

- Windows XP, Vista, 7: Click [Start] → [All Programs] → [CASIO] → [Interactive Whiteboard for CASIO] → [Interactive Whiteboard for CASIO].
- Windows 8: On the Start screen, click the [Interactive Whiteboard for CASIO] tile.
- On your computer desktop, double-click the Interactive Whiteboard for CASIO icon.
- On the computer screen image being projected onto the dot screen, tap with the digital pen.[*1]
- On a document with special dot patterns printed with Dot Pattern Printer for CASIO, tap with the digital pen.[*1]
- Double-click a file (PPG or DST file) saved with IWB for CASIO.[*2]

*1 This startup method can be used when DSPD is running (DSPD icon ▚ displayed in the task tray). DSPD starts up automatically whenever you start up your computer and will be resident in your task tray until you exit it manually.

*2 Double-clicking a PPG file will enter the Presentation Mode (page 41). Double-clicking a DST file will enter the Capture & Draw Mode (page 51). For other startup methods, the initial startup mode is the one that IWB for CASIO was in the last time you exited it.

To exit Interactive Whiteboard for CASIO

Use either one of the following operations.

- Click the close button (☒) in the lower right corner of the main toolbox.
- In the computer's task tray, click the Interactive Whiteboard for CASIO icon (👥). On the menu that appears, click "Exit".
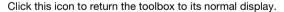
Using the Main Toolbox

The table below explains the functions of each of the tools in the main toolbox.

Main toolbox

To do this:	Do this:
Enter the Mouse Control Mode (page 32)[*1]	Click ⬚ .
Enter the PowerPoint Control Mode (page 33)[*1]	Click ⬚ .
Enter the Presentation Mode (page 41)[*1]	Click ⬚ .
Enter the Capture & Draw Mode (page 51)[*1]	Click ⬚ .
Move the main toolbox	Drag the blue bar at the top of the main toolbox.
Switch the main toolbox orientation between vertical and horizontal	Click ⬚ .
Display software help[*2]	Click ⬚ .
Iconize the toolbox[*3]	Click ⬚ .
Minimize the main toolbox	Click ⬚ .
Exit the software	Click ⬚ .

*1 The icon of the currently selected mode is orange. Selecting any mode other than the Mouse Control Mode causes a mode-specific toolbox to appear in addition to the main toolbox. For details, see the explanations for each mode.

*2 In the Presentation Mode and Capture & Draw Mode, help cannot be accessed by tapping the dot screen with the digital pen.

*3 Hides the main toolbox and mode-specific toolbox and displays only an icon for the current mode. The icon to the right shows what is displayed in the Mouse Control Mode when the toolbox is iconized.
Click this icon to return the toolbox to its normal display.

To view version information

In the computer's task tray, click the Interactive Whiteboard for CASIO icon (👥). On the menu that appears, click "About Interactive Whiteboard for CASIO".

Interactive Whiteboard for CASIO
Version 1.0.0

Mouse Control Mode Digital Pen Operations

In the Mouse Control Mode, you can use the digital pen operations described below to perform mouse operations.

To perform this mouse operation:	Do this with the digital pen:
Click	Tap the dot screen once with the digital pen.
Double-click	Tap the same location (within three pixels) on the dot screen twice in succession with the digital pen.
Right-click	Hold down the digital pen nib at the same location (within three pixels) on the dot screen for at least one second. When [Right-click] appears on the display, remove the digital pen from the dot screen.
Drag	Hold the nib of the digital pen against the dot screen as you drag it from one location to another.
Right-drag	Hold down the digital pen nib at the same location (within three pixels) on the dot screen for at least one second. When [Right-click] appears on the display, drag the nib of the digital pen against the dot screen.

Using the PowerPoint Control Mode

The PowerPoint Control Mode is for conducting slideshow presentations with PowerPoint files*1. The slideshow operations themselves are the same as those you perform when using PowerPoint. The IWB for CASIO PowerPoint Control Mode supports the operations described below.

● Control of PowerPoint slideshow operations (page changes, writing on pages, etc.) using digital pen operations on image projected on the dot screen.

● Control of PowerPoint slideshow operations (page changes, handwriting on pages, etc.) using digital pen operations on documents printed with special dot patterns from PowerPoint files. Each page of a document printed with special dot patterns is linked to a page of the PowerPoint file. Tapping such a document page with the digital pen will jump to the corresponding page on the computer.

*1 IWB for CASIO supports files created with PowerPoint 2003, PowerPoint 2007, and PowerPoint 2010. To conduct a slideshow with a PowerPoint file, the version of PowerPoint required to play back the file must be installed on the computer.

Important!
● If you are using PowerPoint 2010, make sure your computer has Microsoft Office 2010 ServicePack 1 or higher installed. If it doesn't, some IWB for CASIO functionality will be lost when it is used in combination with PowerPoint 2010.

PowerPoint Control Mode Operational Flow

The following is the operational flow, up to actually conducting a slideshow, when using the PowerPoint Control Mode.

---

(1) Prepare the PowerPoint file that you want to use for the slideshow.

---

(2) Use Dot Pattern Printer for CASIO to print the PowerPoint file.
This step is necessary if you plan to perform slideshow operations from printed documents with special dot patterns.
For details, see "Printing Documents with Special Dot Patterns (for the PowerPoint Control Mode)" (page 72).

---

(3) Start up IWB for CASIO, enter the PowerPoint Control Mode, and open the PowerPoint file.
This will start the slideshow, and enable slideshow operation control by performing digital pen operations on the dot screen or on a printed document with special dot patterns.
For more information, see "Conducting a Slideshow in the PowerPoint Control Mode" (page 34).

Conducting a Slideshow in the PowerPoint Control Mode

This section explains how to open a PowerPoint file and perform operations to control the slideshow.

To start a slideshow in the PowerPoint Control Mode

1. **Start up IWB for CASIO. Next, in the main toolbox, click 🔲 to enter the PowerPoint Control Mode.**

● This will display a PowerPoint Control Mode toolbox like the one shown below.

PowerPoint file drop area

2. **If you want, you can click 🔘 on the PowerPoint Control Mode toolbox and then change the Margin settings.**

● For more information, see "Changing the Margin Settings" on page 38.

3. **Drop the PowerPoint file that you want to use for the slideshow onto the PowerPoint file drop area.**

● This will display the "Paper settings" dialog box.

✏️ **Note**

● The settings of this dialog box correspond to printed documents with special dot patterns calibration (digital pen positioning). They do not affect dot screen operations.

4. **Adjust the settings on the dialog box to match the paper settings you configured when you printed the PowerPoint file as a printed document with special dot patterns, and then click [Apply].**
If you are not using a printed document with special dot patterns, click [Apply] without changing any of the settings.

● Clicking [Apply] starts up the PowerPoint application and starts the slideshow from the first page in the PowerPoint file. Slideshow operations are the same as those normally performed with the PowerPoint application.

5. **Use the digital pen to perform page change operations, to write, and to perform other operations on the dot screen or printed document with special dot patterns.**

● For more information, see "Digital Pen Operations during a Slideshow (Power Point Control Mode)" (page 35).

To end a slideshow in the PowerPoint Control Mode

Advance the slideshow to the final page or select "End Show" on the PowerPoint application menu. This will cause the PowerPoint window to be displayed as the top window.

- To restart a slideshow with the same PowerPoint file, perform the required PowerPoint application operation to start the slideshow. If you do not want to restart the slideshow, exit the PowerPoint application.
- If you want to start a slideshow of another PowerPoint file with the PowerPoint Control Mode, perform the procedure starting from step 3 under "To start a slideshow in the PowerPoint Control Mode" (page 34).

Digital Pen Operations during a Slideshow (Power Point Control Mode)

Dot Screen Operations

- You can use the digital pen to perform the mouse operations described below on the dot screen.

To perform this mouse operation:	Do this with the digital pen:
Click	Tap the dot screen once with the digital pen.
Double-click	Tap the same location (within three pixels) on the dot screen twice in succession with the digital pen.
Right-click	Hold down the digital pen nib at the same location (within three pixels) on the dot screen for at least one second. When [Right-click] appears on the display, remove the digital pen from the dot screen.
Drag	Hold the nib of the digital pen against the dot screen as you drag it from one location to another.

Printed Document with Special Dot Pattern Operations

- You can use the digital pen to perform the mouse operations described below on a printed document with special dot patterns.

To perform this mouse operation:	Do this with the digital pen:
Click	Tap the document once with the digital pen.
Double-click	Tap the same location (within three pixels) on the document twice in succession with the digital pen.
Right-click	Hold down the digital pen nib at the same location (within three pixels) on the document for at least one second. When [Right-click] appears at the mouse pointer position on the computer screen (screen currently being projected onto the dot screen), remove the digital pen from the document.
Drag	Hold the nib of the digital pen against the document as you drag it from one location to another.

Important!

- When performing digital pen operations on a printed document with special dot patterns, the mouse pointer operating range is narrower than when you perform digital pen operations on a dot screen or mouse operations on a computer. Digital pen operations may not be possible in the peripheral areas of the document. Also, even if the mouse pointer is within its allowable range of movement with the digital pen, certain PowerPoint settings may make it impossible to write or draw with the Pen tool.

● If there is a "PowerPoint Operations" operation palette printed on the document, use the operation palette to control the PowerPoint application.

To do this:	Tap this icon:
Select the PowerPoint slideshow function Arrow tool	⬚
Select the PowerPoint slideshow function Pen tool (When using PowerPoint 2010, tapping the Ballpoint Pen or Felt Tip Pen icon will select Pen.)	(Ballpoint Pen) (Felt Tip Pen) (Highlighter)
Select the color when drawing or writing with the PowerPoint slideshow function Pen tool	Red Blue Green Yellow
Select the PowerPoint slideshow function Eraser tool	⬚
Display the page before the currently displayed slideshow page	⬅
Display the page after the currently displayed slideshow page	➡
Display the Windows task bar	⬚

● Tapping or dragging on a printed document with special dot patterns is interpreted as described below, in accordance with the tool currently selected with the PowerPoint application.

When you do this:	It is interpreted as this:
Tap the page of a printed document with special dot patterns when the Arrow ( ) is selected	Clicking with the arrow on the corresponding page of the PowerPoint file in the PowerPoint application. However, the actual operation depends on the page currently displayed in the PowerPoint application and the status of the page tapped with the digital pen. **If the tapped document page is different from the page currently displayed by the PowerPoint application:** ● If the page you tapped does not include any animation, that page appears on the display. ● If the page you tapped includes animation, the animation is played from the beginning and then the corresponding page is displayed. **If the tapped document page is the same as the page currently displayed by the PowerPoint application:** The next page is displayed.
Tap or drag on the page of a printed document with special dot patterns when a Pen tool (Ballpoint Pen, Felt Tip Pen, or Highlighter*1) is selected	Clicking or dragging with the Pen tool on the corresponding page of the PowerPoint file in the PowerPoint application. However, the actual operation depends on the page currently displayed in the PowerPoint application. **If the tapped document page is different from the page currently displayed by the PowerPoint application:** ● If the page you tapped does not include any animation, that page appears on the display. ● If the page you tapped includes animation, the animation is played from the beginning and then the corresponding page is displayed. **If the tapped document page is the same as the page currently displayed by the PowerPoint application:** Data is input into the applicable page using the currently selected Pen tool.

*1 In the case if PowerPoint 2010, the Pen or Highlighter.

Changing the Margin Settings

Clicking (Margin settings) on the PowerPoint Control Mode toolbox displays a dialog box that can be used to change the settings described below. These settings apply when using the digital pen on a printed document with special dot patterns.

Margin settings icon

- **Display settings**

  These settings can be used to specify the range of movement for the mouse cursor on the computer screen (the screen projected on the dot screen).

- **Paper settings**

  These settings can be used to specify the settings of the "Paper settings" dialog box (page 39) that is displayed when you open a file in the PowerPoint Control Mode.

- **Paper settings (advanced)**

  These settings can be used to specify the range of input written with the digital pen on a printed document with special dot patterns.

Any changes to the above settings are applied when the procedure under "To start a slideshow in the PowerPoint Control Mode" (page 34) is performed.

To configure display settings

1. **On the PowerPoint Control Mode toolbox, click .**

  - This will display a "Display settings" dialog box like the one shown below.
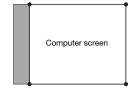
  - This dialog box specifies the range of movement of the mouse cursor on the computer screen (currently being projected on the dot screen) when performing operations with the digital pen on a printed document with special dot patterns.

2. **In the "Top" box, enter a value that specifies the top margin (which limits cursor movement) as the number of pixels from the top of the computer screen.**

  - For example, enter 0 if you want the cursor to be able to move up to the top edge of the computer screen. If you want to limit cursor movement up to 20 pixels from the top edge of the screen, enter 20.

3. **Use the "Bottom", "Left", and "Right" boxes to enter values the same as in step 2, above.**

- For example, entering 30 for "Left" and leaving all of the other values set to 0 will configure the cursor movement range shown below for printed documents with special dot patterns and on the computer screen.

Document printed on paper with special dot patterns

Computer screen

4. **Click [Apply].**
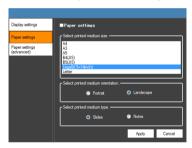
- This saves any changes you have made to the settings and closes the dialog box.

To configure paper settings

1. **On the PowerPoint Control Mode toolbox, click [⚙].**
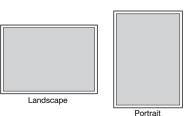
2. **Click the "Paper settings" tab.**

- This will display a "Paper settings" dialog box like the one shown below.
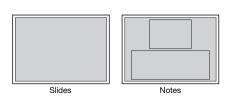
3. **Configure paper size, orientation, and type settings when printing a PowerPoint file as a printed document with special dot patterns.**

Paper Size: A4, A3, A5, B4 (JIS), B5 (JIS), Legal (8.5inch × 14inch), Letter

Orientation: **Paper Type:**

Landscape

Portrait

Slides

Notes

4. **Click [Apply].**
- This saves any changes you have made to the settings and closes the dialog box.
- The settings you configured in step 3 above will be applied as the initial default settings on the "Paper settings" dialog box that appears when you perform the procedure under "To start a slideshow in the PowerPoint Control Mode" (page 34).

To configure advanced paper settings

1. **On the PowerPoint Control Mode toolbox, click** 🔘 **.**

2. **Click the "Paper settings (advanced)" tab.**
- This will display a "Paper settings (advanced)" dialog box like the one shown below.

- This dialog box specifies the range where writing and drawing can be performed with the digital pen on a printed document with special dot patterns.

3. **In the "Top" box, enter a (relative) value to specify the margin from the top edge of the page, which limits the digital pen writing range on printed documents with special dot patterns.**
- Entering 0 specifies no margin. The greater the input value, the larger the margin will be.

4. **Use the "Bottom", "Left", and "Right" boxes to enter values the same as in step 3, above.**
- For example, entering 72 for "Left" and leaving all of the other values set to 0 will configure the cursor movement range shown below for printed documents with special dot patterns and on the computer screen.

5. **Click [Apply].**
- This saves any changes you have made to the settings and closes the dialog box.

Using the Presentation Mode

The Presentation Mode is for conducting presentations using special format (PPG) files generated from PowerPoint, Word, PDF, and other types of files. This mode supports the operations described below.

- Slideshow operations (page changes, writing on pages, etc.) with the digital pen on the dot screen or on printed documents with special dot patterns
- As with PowerPoint file slideshow presentations, the Pen tool or Marker Pen tool can be used for writing into the image. The following operations are also supported: shape, line, and arrow drawing; image file pasting; relocation, zoom, and delete of objects inserted into a page; appending of a blank page at the end of the slideshow, etc.
- Saving of content inserted during a slideshow to a PPG file
  After re-opening a PPG file, inserted content can be edited (relocated, zoomed, deleted) as desired.
- A choice of slideshow views: full-screen view or window view

Presentation Mode Operational Flow

The following is the operational flow, up to actually conducting a slideshow, when using the Presentation Mode.

---

(1) **Prepare the PowerPoint, Word, PDF, or other file to be used as the source of the slideshow, and (if you plan to perform slideshow operations from a printed document with special dot patterns) print it using Dot Pattern Printer for CASIO.**

(2) **Use the file you prepared in step (1) above to create a PPG file.**
You can perform the above two steps simultaneously using Dot Pattern Printer for CASIO. For details, see "Printing Documents with Special Dot Patterns and Creating PPG Files (for the Presentation Mode)" (page 74).

⇩

---

(3) **Start up IWB for CASIO, enter the Presentation Mode, and open the PPG file.**
This will start the slideshow, and enable slideshow operation control by performing digital pen operations on the dot screen or on a printed document with special dot patterns.
For more information, see "Conducting a Slideshow in the Presentation Mode" (page 42).
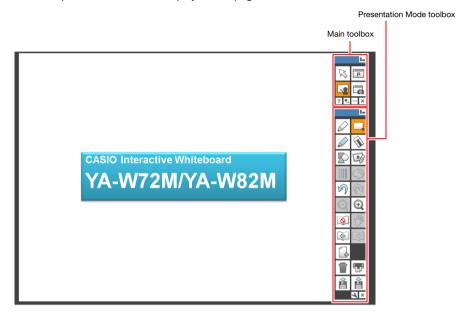
Conducting a Slideshow in the Presentation Mode

This section explains how to open a PPG file and perform operations to control the slideshow.

To start a slideshow in the Presentation Mode

1. **Start up IWB for CASIO. Next, in the main toolbox, click ⬚ to enter the Presentation Mode.**
- This displays the Presentation Mode toolbox along with an "Open" dialog box.

2. **Use the "Open" dialog box to select the PPG file for the slideshow and then click [Open].**
- This will open the PPG file and display its first page.

Presentation Mode toolbox

Main toolbox

3. **Use the digital pen to perform page change operations, to write, and to perform other operations on the dot screen or printed document with special dot patterns.**
- For more information, see "Digital Pen Operations during a Slideshow (Presentation Mode)" (page 43).

✎ **Note**
- In place of steps 1 and 2 of the above procedure, you could also double-click the PPG file you want to use for the slideshow. This will start up IWB for CASIO and open the PPG file.

To select full-screen view or window view for a slideshow

In the Presentation Mode, you can select either full-screen view or window view for a slideshow. For more information, see "Changing Presentation Mode Configuration Settings" (page 47).
Note that any time you change the view you will need to restart IWB for CASIO.

To end a slideshow in the Presentation Mode

In the lower right corner of the Presentation Mode toolbox, click the close (⊠) button

If you have written or drawn data into the PPG file or made other changes during the slideshow, a dialog box will appear with the message, "Save presentation data before exiting?".

– Click [Yes] to save. On the "Save As" dialog box that appears, specify a file name and storage location and then click [Save].
– If you want to discard the changes without saving them, click [No].

Digital Pen Operations during a Slideshow (Presentation Mode)

This section provides brief explanations of the operations that can be performed with the digital pen on the dot screen or on a printed document with special dot patterns. For details about each individual operation, see "Tool Operations in the Presentation Mode and Capture & Draw Mode" (page 61).

Dot Screen Operations
You can use the digital pen to perform mouse click and drag operations on the dot screen.

To perform this mouse operation:	Do this with the digital pen:
Click	Tap the dot screen once with the digital pen.
Drag	Hold the nib of the digital pen against the dot screen as you drag it from one location to another.

In addition, you can click the Presentation Mode toolbox icons to perform the Presentation Mode functions described in the table below.

● The term "page" in the table refers to the slideshow slide that is the target of the operation being performed.
● The term "object" refers to content, a shape, or an image that has been added to a slideshow page using an IWB for CASIO function.
● An asterisk (*) next to an icon indicates that the icon's function can be performed from the "Presentation Mode" operation palette on a printed document with special dot patterns.
● Only the 🔳 icon is a main toolbox icon.

To do this:	Click this icon:
Select the Arrow tool ▶ (which can be used to advance to the next page by clicking)	🔳 *
Select the Pen tool (for pen input on the page)	✎ *
Select the Marker Pen tool (for marker input on the page)	✎ *
Select the Selection tool (for selecting objects on the page)	▢
Select the Eraser tool (for deleting objects from the page)	◈ *

To do this:	Click this icon:
Display the Shapes menu Clicking an icon on the Shapes menu that appears will select a drawing tool for the shape represented by the icon.	
Display an "Open" dialog box for inserting an image file into the page	
Display the Line Type Setting menu Clicking an icon on the Line Type Setting menu that appears will change the line type assigned to the currently selected write/draw tool. This setting can be changed individually for each digital pen.	*
Display the Color Setting menu Clicking an icon on the Color Setting menu that appears will change the color assigned to the currently selected write/draw tool. This setting can be changed individually for each digital pen.	*
Undo up to 10 of the last write, draw, or image-related operations	
Redo operations undone with	
Increase the zoom factor of the page view (150%, 200%, 300%)	*
Decrease the zoom factor of a zoomed page view	*
Select the Hand cursor tool (to drag a zoomed page)	*
Disable (or re-enable) page auto change (page 46) when a printed document with special dot patterns is tapped with the digital pen	*
Display the page before the currently displayed slideshow page	*
Display the page after the currently displayed slideshow page	*
Add a blank page at the end of the currently opened PPG file (Up to 20 pages can be added.)	
Display the Delete menu The Delete menu contains three options: "Delete all objects on displayed page", "Delete all objects on all pages", "Delete displayed page". For details, see "Delete Menu Operations" (page 67).	
Display the "Print" dialog box to print the currently open PPG file	
Display the "Open" dialog box to open a PPG file	
Display the Save File menu The Save File menu contains three options: "Save ppg", "Save image of displayed page", "Save images of all pages". For details, see "Save File Menu Operations" (page 68).	

Printed Document with Special Dot Pattern Operations

- You can use the digital pen to perform mouse click and drag operations on a printed document with special dot patterns.

To perform this mouse operation:	Do this with the digital pen:
Click	Tap the document once with the digital pen.
Drag	Hold the nib of the digital pen against the document as you drag it from one location to another.

- When there is a "Presentation Mode" operation palette on a printed document with special dot patterns, you can use the operation palette to change the slideshow page, to select certain tools, etc.

When the operation palette on the printed document with special dot pattern is a "Presentation Mode for Student" operation palette, it can be used to change the line type and color settings of the currently selected write/draw tool.

To do this:	Tap this icon:
Select the Arrow tool ➤ (which can be used to advance to the next page by tapping)	🔲 *1
Increase the zoom factor of the page view	🔍⊕
Decrease the zoom factor of a zoomed page view	🔍⊖ *2
Select the Hand cursor tool (to drag a zoomed page)	🔲 *2
Select the Pen tool (for pen input on the page)	✏️
Select the Marker Pen tool (for marker input on the page)	✏️
Change the line type assigned to the currently selected write/draw tool	❘ ❘ ❙ ❙ ❚ *3
Change the color assigned to the currently selected write/draw tool	🟥R 🟦B 🟨Y ⬛BK *3
Select the Eraser tool (for deleting objects from the page)	🧽
Display the page before the currently displayed slideshow page	◀️
Display the page after the currently displayed slideshow page	▶️
Disable (or re-enable) page auto change (page 46) when a printed document with special dot patterns is tapped with the digital pen	🚫

*1 Enabled only when the page is not zoomed.
*2 Enabled only when the page is zoomed.
*3 Can be changed individually for each digital pen.

Page Auto Change Feature of Printed Documents with Special Dot Patterns

An operation performed with the digital pen on any page of a printed document with special dot patterns is interpreted as an operation on the corresponding PPG file page. A page auto change feature causes the slideshow to jump automatically to the PPG file page that corresponds to any printed document page that is tapped with the digital pen.

You can disable page auto change, if you want. Simply tap the [icon] icon on the Presentation Mode toolbox or on a printed document with special dot pattern operation palette. This will toggle page auto change between enabled ([icon] displayed as the Presentation Mode toolbox icon) and disabled ([icon] displayed as the icon).

- While page auto change is enabled ([icon]), tapping a page of a printed document with special dot patterns that is different from the currently selected page will cause the current slideshow to jump automatically to that page, regardless of which tool is currently selected.

- Regardless of whether page auto change is enabled or disabled, performing a tap or drag operation on a page of a printed document with special dot patterns with the digital pen will cause the same operation to be performed with the currently selected tool on the corresponding page of the slideshow that is currently in progress. If the Pen tool is currently selected, for example, performing a drag operation on a page of a printed document with special dot patterns that is different from the page currently displayed by the slideshow will perform a draw operation on the corresponding page of the slideshow. Note that while page auto change is disabled ([icon]), you may end up performing unintended operations (deletion of page objects with the Eraser tool, etc.) on a page that is currently not displayed.

Changing Presentation Mode Configuration Settings
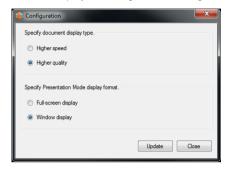
You can use the procedure in this section to change settings that affect the Presentation Mode operation as described below.

● Specify higher speed or higher quality for pen input
● Specify a full-screen view or window view for slideshows

To configure Presentation Mode configuration settings

1. **On the Presentation Mode toolbox, click 🔍.**
   ● This will display a "Configuration" dialog box like the one shown below.

```
┌─────────────────────────────────────────┐
│ 🔧 Configuration                      ✕  │
├─────────────────────────────────────────┤
│ Specify document display type.          │
│   ○ Higher speed                        │
│   ● Higher quality                      │
│                                         │
│ Specify Presentation Mode display format.│
│   ○ Full-screen display                 │
│   ● Window display                      │
│                                         │
│           [ Update ]  [ Close ]         │
└─────────────────────────────────────────┘
```

🔖 **Important!**
   ● To perform dialog box operations on the dot screen with the digital pen, tap 🖱 on the main toolbox to enter the Mouse Control Mode. Dialog box operations are not supported in the Presentation Mode.

2. **Select the option you want.**

To do this:	Select this option:
Give speed (response to pen movement) priority over quality (smoothness) when writing or drawing with a Pen or Marker Pen	Higher speed
Give quality priority over speed when writing or drawing with a Pen or Marker Pen Selecting this option causes curved lines to be smoother.	Higher quality
Display slideshows in a full-screen view	Full-screen display
Display slideshows in a window view	Window display

3. **To apply the changes, click [Update].**
   ● In response to the dialog box that appears prompting you to restart IWB for CASIO, click [OK] (which will not restart IWB for CASIO).

4. **To exit the "Configuration" dialog box, click [Close].**

5. **To apply the changes you have made to settings, restart IWB for CASIO.**
   ● You can also apply changes by clicking the close (✕) button in the lower right corner of the Presentation Mode toolbox to exit the Presentation Mode, and then clicking 🖼 to re-enter the Presentation Mode.

Changing Presentation Mode Startup Default Settings

You can use the procedure in this section to edit the contents of the startup default setup file, which specifies the initial Presentation Mode startup default settings of the items listed below.

- Startup default tool (Pen, Marker Pen, or Arrow)
- Startup default Pen color and line thickness
- Startup default Marker Pen color and line thickness
- Startup default Shapes color and line thickness
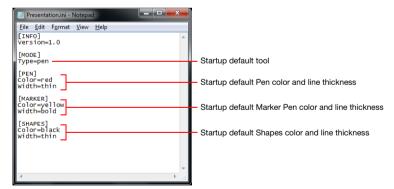
Important!

- Making changes to the startup default setup file runs the risk of causing Interactive Whiteboard for CASIO operation problems. Exercise care whenever making changes.

To edit the Presentation Mode startup default setup file

1. **If Interactive Whiteboard for CASIO is running, exit it.**

2. **On your computer, open the folder named "Interactive Whiteboard for CASIO" at either of the locations below.**
   - Windows XP:
     C:\Documents and Settings\{login user name}\My Documents\Interactive Whiteboard for CASIO
   - Windows Vista, Windows 7 or Windows 8:
     C:\Users\{login user name}\Documents\Interactive Whiteboard for CASIO
   - In the folder, you will find a file named Presentation.ini, which is the Presentation Mode startup default setup file.

3. **In the folder you opened in step 2, above, double-click Presentation.ini.**
   - This will start up Notepad, and display the default setup file contents.

4. **Edit the file contents in accordance with information in the table below. An asterisk (*) indicates the factory default setting.**

To select this as the startup default tool:	Change line under [MODE] to this:
Pen*	Type=pen
Marker Pen	Type=marker
Arrow	Type=presentation

To select this as the startup default Pen color:	Change first line under [PEN] to this:
Red*	Color=red
Blue	Color=blue
Black	Color=black
Yellow	Color=yellow

To select this as the startup default Pen line thickness:	Change second line under [PEN] to this:
Fine*	Width=thin
Normal	Width=normal
Thick	Width=bold
Extra thick	Width=extrabold

To select this as the startup default Marker Pen color:	Change first line under [MARKER] to this:
Red	Color=red
Blue	Color=blue
Black	Color=black
Yellow*	Color=yellow

To select this as the startup default Marker Pen line thickness:	Change second line under [MARKER] to this:
Fine	Width=thin
Normal	Width=normal
Thick*	Width=bold
Extra thick	Width=extrabold

To select this as the startup default Shapes color:	Change first line under [SHAPES] to this:
Red	Color=red
Blue	Color=blue
Black*	Color=black
Yellow	Color=yellow

To select this as the startup default Shapes line thickness:	Change second line under [SHAPES] to this:
Fine*	Width=thin
Normal	Width=normal
Thick	Width=bold
Extra thick	Width=extrabold

5. **After all of the edits are the way you want, save the file and close the Notepad window.**

Note

- When you save the file in step 5 of the above procedure, the initial factory default setting will be automatically set for any item for which there is invalid text (a setting that is not included in the table above) to the right of the equals (=) sign. For example, if "Width=red" is specified for the Shapes line thickness setting, "thin" will automatically be applied as the startup default setting.
- If, after you edit the startup default setup file, you have problems starting up Interactive Whiteboard for CASIO, trash the edited Presentation.ini file and then restart Interactive Whiteboard for CASIO. This will automatically generate a new Presentation.ini file configured with factory default settings.

Using the Capture & Draw Mode

The Capture & Draw Mode lets you capture the computer screen image (being projected onto the dot screen), and then write or draw on the captured image using the digital pen. Note that IWB for CASIO toolboxes and windows are not included in the captured image. Captured images containing drawn or written data can be stored as editable format (DST) files, or as non-editable image (png, jpg, or bmp) files.

Capture & Draw Mode Operational Flow

This following is the operational flow for capturing a computer screen image and drawing on it in the Capture & Draw Mode.

---

(1)   Project the computer screen image you want to capture and draw on.
The primary computer display device must be the one being projected onto the dot screen. See the "Important!" notes below.

⇩

---

(2)   Start up IWB for CASIO, enter the Capture & Draw Mode, and perform the screen capture operation.

(3)   Draw on the captured image as desired.
As soon as you capture a screen image in the Capture & Draw Mode, the digital pen automatically switches to a mode for drawing on the image. For details, see "Capturing and Drawing on the Currently Displayed Computer Screen Image" (page 52).

Important!
- If the computer has multiple display devices connected (such as when a laptop computer is connected to the projector), make sure that the primary display device of the computer is being projected onto the dot screen. Computer screen capture in the Capture & Draw Mode can only capture the computer's primary display device.
- If the computer's primary display device is not the one being projected onto the dot screen, perform the required operation on the computer to change its display settings so that the primary display device is being projected. After changing the computer's display settings, be sure to perform the operation under "To perform calibration" (page 28) again to re-calibrate.
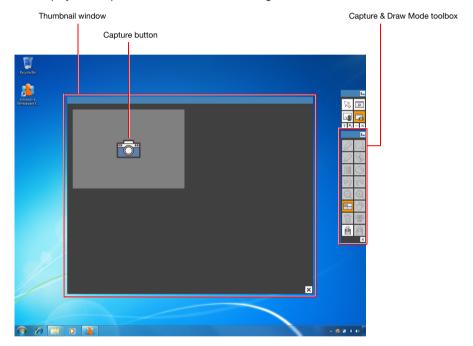
Capturing and Drawing on the Currently Displayed Computer Screen Image

Use the procedure below to capture an image of the computer screen being projected onto the dot screen and to draw on the captured image.

To capture and draw on the currently displayed computer screen image

1. **On the computer screen, display the diagram or document you want to capture and draw on.**

2. **On the main toolbox, click** [icon] **to enter the Capture & Draw Mode.**
   ● This displays the Capture & Draw Mode toolbox along with the thumbnail window.

Thumbnail window   Capture & Draw Mode toolbox

Capture button

3. **On the thumbnail window, click the capture button.**

- This will close the thumbnail window. At the same time, the computer screen you displayed in step 1 (excluding IWB for CASIO toolboxes and windows) will be captured and displayed.

Image number   Outer boundary of captured image display

- A boundary is displayed around a captured image to differentiate it from the normal computer screen. Also, an image number (indicating chronological order that the images were captured) is displayed on the lower left corner of the image.
- The captured screen boundary is displayed only the Capture & Draw Mode, and it is not included in the saved data.

4. **Use the digital pen to write or draw on the captured image.**

- For more information, see "Digital Pen Operations in the Capture & Draw Mode" (page 56).

To capture and draw on another image

1. **Click ⊞. In the lower right corner of the thumbnail window that appears, click ✕ .**
- This will close the captured image and display the computer's desktop.
- The IWB for CASIO main toolbox and Capture & Draw Mode toolbox also will remain on the display.

2. **On the computer screen, display a chart, document, etc.**
- If you want an unobstructed view of the screen, you can hide the IWB for CASIO toolbox by clicking the minimize (⊟) button on the main toolbox. To re-display the toolbox, click the Interactive Whiteboard for CASIO icon in the Windows task bar.

3. **Click ⊞. On the thumbnail window that appears, click 📷 (capture button).**
- This will capture an image of the computer screen you configured in step 2 of this procedure and then display the captured image.

4. **Use the digital pen to write or draw on the captured image.**
- For more information, see "Digital Pen Operations in the Capture & Draw Mode" (page 56).

✎ **Note**
- If you want to re-display the previously captured image immediately after you close it in step 1 of the procedure above, click ⊞ to display the thumbnail window and then click ➡ in the lower right corner of the window.
- You can have up to 50 capture images on the thumbnail window at one time. Attempting to perform the above capture operation while there are already 50 images on the thumbnail window will cause the confirmation dialog box shown below to appear.

> OK
>
> ℹ Maximum number of allowable pages is about to be exceeded, which will cause oldest page to be deleted. OK to continue?
>
> [OK] [Cancel]
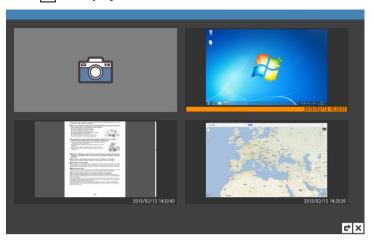
If you want to execute the capture, which will cause the oldest image on the thumbnail window to be deleted automatically, click [OK].

If you want to retain all of the images currently on the thumbnail window, click [Cancel] and then perform the procedure under "To save all captured images as a DST file (Capture & Draw Mode)" (page 68). After that, click the close (✕) button in the lower right corner of the Capture & Draw Mode toolbox and then perform the procedure under "To capture and draw on the currently displayed computer screen image" (page 52) again.

To display previously captured images

1. Click 🖼 to display the thumbnail window.

2. **Click the thumbnail of the captured image you want to re-display.**
   ● This will display the captured image whose thumbnail you clicked.

To exit the Capture & Draw Mode

In the lower right corner of the Capture & Draw Mode toolbox, click the close (✖) button.
If there are any unsaved captured images on the thumbnail window, a confirmation dialog box will appear with the message "Save "Capture & Draw" data before exiting?".

– Click [Yes] to save. On the "Save As" dialog box that appears, specify a file name and storage location and then click [Save]. This will save all captured images and anything drawn on the screen to a single DST file.

– To discard all the images you captured in the current Capture & Draw Mode session and any data currently drawn on the images, click [No] on the confirmation dialog box.

To open and edit a saved DST file

1. **Use either of the operations below to open a DST file.**
   – Use Windows Explorer to navigate to the storage location of the DST file and then double-click the file.
   – On the Capture & Draw Mode toolbox, click (![icon]). Use the "Open" dialog box that appears, select the DST file and then click [Open].
   ● This will display the first image (the image with the oldest capture date) in the DST file.

2. **To display another image in the DST file, click ![icon] to display the thumbnail window. Next, click the thumbnail of the image you want to display.**

3. **Use the digital pen to draw on or edit the image.**
   ● For more information, see the following "Digital Pen Operations in the Capture & Draw Mode".

Digital Pen Operations in the Capture & Draw Mode

This section provides brief explanations of the operations that can be performed with the digital pen on the dot screen. For details about each individual operation, see "Tool Operations in the Presentation Mode and Capture & Draw Mode" (page 61).

You can use the digital pen to perform mouse click and drag operations on the dot screen.

To perform this mouse operation:	Do this with the digital pen:
Click	Tap the dot screen once with the digital pen.
Drag	Hold the nib of the digital pen against the dot screen as you drag it from one location to another.

In addition, you can click the Capture & Draw Mode toolbox icons to perform the Capture & Draw Mode functions described in the table below.
● The term "page" in the table refers to the captured image currently displayed on the Capture & Draw Mode screen.
● The term "object" refers to content written or drawn on the image with a Pen or Marker Pen tool.
● Only the ![icon] icon is a main toolbox icon.

To do this:	Click this icon:
Select the Pen tool (for pen input on the page)	![icon]
Select the Marker Pen tool (for marker input on the page)	![icon]
Select the Selection tool (for selecting objects on the page)	![icon]
Select the Eraser tool (for deleting objects from the page)	![icon]
Display the Line Type Setting menu — Clicking an icon on the Line Type Setting menu that appears will change the line type assigned to the currently selected write/draw tool.	![icon]
Display the Color Setting menu — Clicking an icon on the Color Setting menu that appears will change the color assigned to the currently selected write/draw tool.	![icon]

To do this:	Click this icon:
Undo up to 10 of the last draw operations	
Redo operations undone with	
Increase the zoom factor of the page view (150%, 200%, 300%)	
Decrease the zoom factor of a zoomed page view	
Select the Hand cursor tool (to drag a zoomed page)	
Display the thumbnail window The two operations below can be performed with the thumbnail window. ● Capture an image of the computer screen by clicking the capture ( ) button. ● Display a captured image by clicking its thumbnail.	 Or
Display the Delete menu The Delete menu contains three options: "Delete all objects on displayed page", "Delete all objects on all pages", "Delete displayed page". For details, see "Delete Menu Operations" (page 67).	
Display the "Print" dialog box to print the currently open DST file	
Display the "Open" dialog box to open a DST file	
Display the Save File menu The Save File menu contains three options: "Save dst", "Save image of displayed page", "Save images of all pages". For details, see "Save File Menu Operations" (page 68).	

Changing Capture & Draw Mode Startup Default Settings

You can use the procedure in this section to edit the contents of the startup default setup file, which specifies initial Capture & Draw Mode startup default settings of the items listed below.

● Startup default tool (Pen or Marker Pen)
● Startup default Pen color and line thickness
● Startup default Marker Pen color and line thickness
● Captured image boundary color and thickness (page 53)
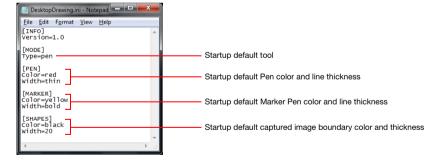
Important!

● Making changes to the startup default setup file runs the risk of causing Interactive Whiteboard for CASIO operation problems. Exercise care whenever making changes.

To edit the Capture & Draw Mode startup default setup file

1. **If Interactive Whiteboard for CASIO is running, exit it.**

2. **On your computer, open the folder named "Interactive Whiteboard for CASIO" at either of the locations below.**
– Windows XP:
C:\Documents and Settings\{login user name}\My Documents\Interactive Whiteboard for CASIO
– Windows Vista, Windows 7 or Windows 8:
C:\Users\{login user name}\Documents\Interactive Whiteboard for CASIO
● In the folder, you will find a file named DesktopDrawing.ini, which is the Capture & Draw Mode startup default setup file.

3. **In the folder you opened in step 2, above, double-click DesktopDrawing.ini.**
● This will start up Notepad, and display the default setup file contents.

4. Edit the file contents in accordance with information in the table below. An asterisk (*) indicates the factory default setting.

To select this as the startup default tool:	Change line under [MODE] to this:
Pen*	Type=pen
Marker Pen	Type=marker

To select this as the startup default Pen color:	Change first line under [PEN] to this:
Red*	Color=red
Blue	Color=blue
Black	Color=black
Yellow	Color=yellow

To select this as the startup default Pen line thickness:	Change second line under [PEN] to this:
Fine*	Width=thin
Normal	Width=normal
Thick	Width=bold
Extra thick	Width=extrabold

To select this as the startup default Marker Pen color:	Change first line under [MARKER] to this:
Red	Color=red
Blue	Color=blue
Black	Color=black
Yellow*	Color=yellow

To select this as the startup default Marker Pen line thickness:	Change second line under [MARKER] to this:
Fine	Width=thin
Normal	Width=normal
Thick*	Width=bold
Extra thick	Width=extrabold

To select this as the capture image boundary color:	Change first line under [SHAPES] to this:
Red	Color=red
Blue	Color=blue
Black*	Color=black
Yellow	Color=yellow

To select this as the capture image boundary thickness:	Change second line under [SHAPES] to this:
1 pixel to 100 pixels (Factory default: 20 pixels)	Width={line thickness value} For example, to specify a 15-pixel thick line, specify: "Width=15".

5. After all of the edits are the way you want, save the file and close the Notepad window.

📝 **Note**

- When you save the file in step 5 of the above procedure, the initial factory default setting will be automatically set for any item for which there is invalid text or numbers (a setting that is not included in the table above) to the right of the equals (=) sign. For example, if "Width=red" is specified for the Marker Pen line thickness setting, "thick" will automatically be applied as the startup default setting.
- If, after you edit the startup default setup file, you have problems starting up Interactive Whiteboard for CASIO, trash the edited DesktopDrawing.ini file and then restart Interactive Whiteboard for CASIO. This will automatically generate a new DesktopDrawing.ini file configured with factory default settings.

Tool Operations in the Presentation Mode and Capture & Draw Mode

The Presentation Mode toolbox and Capture & Draw Mode toolbox include some tools that are common to both modes, and some tools that are unique to each mode. Among the common tools, there are those whose operations are identical on both modes, and those whose operations are slightly different in each mode. This section explains the tools that are available in each of the modes and what operations they perform there.

Write/Draw Tool Operations

The operations in this section are the same in both the Presentation Mode and the Capture & Draw Mode, except as specifically noted.

To write on a page with a Pen or Marker Pen

1. **Click** ✏️ **to use the Pen or** ✏️ **to use the Marker Pen.**

2. **If you want, you could specify a line type and line thickness using the procedure under "To specify the type and thickness of an object line" (page 64).**

3. **If you want, you could specify a color using the procedure under "To specify the color of an object" (page 65).**

4. **Perform a drag operation on the page to draw or write.**

To draw a circle, triangle or rectangle on a page (Presentation Mode)

1. **Click** 🔲 **to display the Shapes menu.**

2. **Depending on the type of shape you want to draw, tap one of the icons inside the outline shapes (○△□) group or the filled shapes (●▲■) group.**
  - In this example, we will use ▲ (filled triangle).

3. **If you want, you could specify a line type and line thickness using the procedure under "To specify the type and thickness of an object line" (page 64).**

4. **If you want, you could specify a color using the procedure under "To specify the color of an object" (page 65).**
  - The color you specify here is applied to the outline of the shape if you selected an outline shape in step 2 of this procedure, or both the outline and the fill if you selected a filled shape. Note that specification of different outline and fill colors is not supported.

5. **On the page, perform a drag operation at the location where you want to draw the triangle.**

● While you drag, a dotted line rectangle, whose diagonal goes from the drag start position to the current mouse pointer position, will appear to indicate the size of the shape. When you release the mouse button (or remove the digital pen from the dot screen), an isosceles triangle will be drawn in the area that was defined by the rectangle.

To draw a straight line or arrow on a page (Presentation Mode)

1. **Click 🔲 to display the Shapes menu.**

2. **Depending on the type of line you want to draw, click the straight line (│), single-ended arrow (↑), or double-ended arrow (↕) icon.**

● In this example, we will use │↑│ (single-ended arrow).

3. **If you want, you could specify a line type and line thickness using the procedure under "To specify the type and thickness of an object line" (page 64).**

4. **If you want, you could specify a color using the procedure under "To specify the color of an object" (page 65).**

5. **Drag from the start point where you want to draw the line up to the end point.**

● While you drag, a dotted line will appear from the drag start position to the current mouse pointer position to indicate the location of the line. When you release the mouse button (or remove the digital pen from the dot screen), a line will be drawn from the drag start point to the drag end point, with an arrow at the end point.

To paste an image file into a page (Presentation Mode)

1. Click 🖼️.

2. **On the "Open" dialog box that appears, select the image file you want to paste onto the page.**
   - Supported image file formats are png, jpg, and bmp.

3. **Click [Open].**
   - This pastes the image in the center of the page.

4. **To resize the image or move to a different location, click 🔲, click the pasted image, and then perform the resize or move operation.**
   - For more information, see "To move or to resize objects" (page 65) and "To rotate objects (Presentation Mode)" (page 66).

To select a single object

1. Click 🔲.

2. **Click the object.**
   - This will select the object and surround it with a rectangular selection boundary with handles (🔲).

Example of selection of object drawn with the Marker Pen
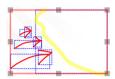
Example of selection of object drawn with the Shapes tool (Presentation Mode only)
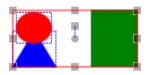
   - You can move the object by dragging a point inside the selection boundary. You can change the shape of the object by dragging a handle. For more information, see "To move or to resize objects" (page 65) and "To rotate objects (Presentation Mode)" (page 66).

To select multiple objects

1. Click 🔲.

2. **Drag so all of the objects you want to select are enclosed inside of the rectangular selection boundary that appears.**

   ● While you drag, a dotted line rectangle, whose diagonal goes from the drag start position to the current mouse pointer position, will appear to indicate the size of the selection boundary. When you release the mouse button (or remove the digital pen from the dot screen), all of the objects that were within the selection boundary will be selected. They will all be surrounded by selection boundaries with handles (🔲).

Example of selection of multiple objects drawn with the Pen and Marker Pen

Example of selection of multiple objects drawn with the Shapes tool (Presentation Mode only)

   ● You can move the object by dragging a point inside the selection boundary. You can change the shape of the object by dragging a handle. For more information, see "To move or to resize objects" (page 65) and "To rotate objects (Presentation Mode)" (page 66).

To specify the type and thickness of an object line

1. **To specify the line type thickness before writing or drawing an object, select the tool you want to use. To change the line type and thickness of an object that has already been written or drawn, select the object.**

2. **Click ▥ to display the Line Type Setting menu.**

(Line Type Setting menu)

3. **Click one of the two icons at the top of the Line Type Setting menu to specify the line type (solid line or dotted line).**

4. **Click ▥ again to display the Line Type Setting menu.**

5. **Click one of the five icons at the bottom of the Line Type Setting menu to specify the line thickness.**

To specify the color of an object

1. To specify the color before writing or drawing an object, select the tool you want to use. To change the color of an object that has already been written or drawn, select the object.

2. Click ⊚ to display the Color Setting menu.

 (Color Setting menu)

3. On the Color Setting menu, click the icon for the color you want.

- If you want to use a color that is not included on the Color Setting menu, click the down arrow (▼) on the right end of the menu. On the "Color Setting" dialog box that appears, select the color you want to use and then click [OK]. Specifying a color with the dialog box will replace the color at the right end of the Color Setting menu icons with the color you specify.

To move or to resize objects

1. Perform the steps under "To select a single object" (page 63) or "To select multiple objects" (page 64) to select the object(s) you want to change.

2. To move the selected object(s), click and hold inside the selection boundary (if you are using the digital pen, press and hold), and then drag the object(s) to the desired location.

3. To re-size the selected object(s) while maintaining the current horizontal-vertical relationship, click and hold one of the corner handles (■) of the selection boundary (if you are using the digital pen, press and hold), and then drag the handle. When the selection is the desired size, release the mouse button (or remove the digital pen from the dot screen).

4. To re-size (stretch) the selected object(s) horizontally or vertically (without maintaining the current horizontal-vertical relationship), click and hold one of the side handles (■) of the selection boundary (if you are using the digital pen, press and hold), and then drag the handle. When the selection is the desired size, release the mouse button (or remove the digital pen from the dot screen).
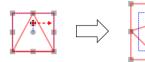
To rotate objects (Presentation Mode)

✎ **Note** ───

● You can use the procedure below only to rotate a circle, triangle, or rectangle drawn with the shapes tool, or an image pasted from a file onto the page.

1. Perform the steps under "To select a single object" (page 63) or "To select multiple objects" (page 64) to select the object(s) you want to change.

2. To rotate the selected object(s), click and hold the handle (■) above the center point marker (●) in the selection boundary (if you are using the digital pen, press and hold), and then drag the handle. When the selection is at the desired angle, release the mouse button (or remove the digital pen from the dot screen).

● If you select multiple objects in step 2 of this procedure, each of the selected objects will rotate individually on its own center point. The group selection will not rotate on the current selection boundary center point.

To delete objects

1. Click 🖉 .

2. To delete a single object, click it.

● The object will be deleted as soon as you click it.

To delete multiple objects, use the Eraser tool to select them using the same procedure as the one under "To select multiple objects" (page 64).

● When you release the mouse button (or remove the digital pen from the dot screen), all of the objects contained inside the selection boundary will be deleted.

Delete Menu Operations

You can use the Delete menu (which appears when you click ⬛ on the tool box) to delete all of the objects on the currently displayed page or on all pages, or to delete the currently displayed page.

The operations in this section are the same in both the Presentation Mode and the Capture & Draw Mode, except as specifically noted.

To delete all objects on the displayed page

1. Click ⬛ to display the Delete menu, and then click ⬛ .
● This will display a dialog box asking if you want to delete all the objects.

2. To delete all objects on the currently displayed page, click [OK]. To cancel the delete operation without deleting anything, click [Cancel].

To delete all objects on all pages

1. Click ⬛ to display the Delete menu, and then click ⬛ .
● This will display a dialog box asking if you want to delete all the objects.

2. To delete all objects on all pages, click [OK]. To cancel the delete operation without deleting anything, click [Cancel].

To delete the currently displayed page

📝 **Note**
● In the Presentation Mode, you can delete only pages that have been added by clicking ⬛ .

1. Click ⬛ to display the Delete menu, and then click ⬛ .
● This will display a dialog box asking if you want to delete the page.

2. To delete the currently displayed page, click [OK]. To cancel the delete operation without deleting anything, click [Cancel].

Save File Menu Operations

You can use the Save File menu (which appears when you click on the toolbox) to save a file that is currently open in the Presentation Mode or Capture & Draw Mode as an IWB for CASIO proprietary format file (ppg or dst) or as a general-purpose format image file (png, jpg, or bmp).

● A file saved as an IWB for CASIO proprietary format file (ppg or dst) can be opened and edited using IWB for CASIO.

● A file saved as a general-purpose format image file (png, jpg, or bmp) can be opened using any application that supports the format. Note that a file saved as a general-purpose format image file cannot be edited using IWB for CASIO.

The operations in this section are the same in both the Presentation Mode and the Capture & Draw Mode, except as specifically noted.

To save the current slideshow as a PPG file (Presentation Mode)

1. In the Presentation Mode, click . On the Save File menu that appears, click .

2. Use the "Save As" dialog box that appears to specify a file name and a storage location, and then click [Save].
   ● A nine-digit number that indicates the time of the file save will be appended automatically to the file name. For more information, see "Saved File Naming Rules" (page 69).

To save all captured images as a DST file (Capture & Draw Mode)

1. In the Capture & Draw Mode, click . On the Save File menu that appears, click .

2. Use the "Save As" dialog box that appears to specify a file name and a storage location, and then click [Save].
   ● A nine-digit number that indicates the time of the file save will be appended automatically to the file name. For more information, see "Saved File Naming Rules" (page 69).

To save the currently displayed page as an image file

1. Click to display the Save File menu, and then click .

2. Use the "Save As" dialog box that appears to specify a file name and a storage location, and then click [Save].
   ● A nine-digit number that indicates the time of the file save and a three-digit page number will be appended automatically to the file name. For more information, see "Saved File Naming Rules" (page 69).

To batch save all of the pages as individual image files

1. Click ▣ to display the Save File menu, and then click ▣ .

2. Use the "Save As" dialog box that appears to specify a file name and a storage location, and then click [Save].

- Nine-digit numbers that indicate the time of the file saves and three-digit page numbers will be appended automatically to the file names. The three-digit serial number will start from 001 for the first file, and be incremented for each additional file. For more information, see "Saved File Naming Rules" (page 69).

Saved File Naming Rules

Files you save in the Presentation Mode and Capture & Draw Mode are named using the formats shown in the table below.

When you perform this type of save operation:	The file is named using this format:
Save as a PPG file or DST file	{name you input}_{save time}
Save of the currently displayed page as an image file	{name you input}_{save time}_{page number}
Batch save of all pages as individual image files	{name you input}_{save time}_{page number}

{name you input} ....This is the name you enter in the "File Name" box on the "Save As" dialog box. If you do not enter anything, the name of the currently open file is used as the default.

{save time} ....Automatically specified time in the format: hhmmssfff
hh: Save time hour (24-hour format)   mm: Save time minute
ss: Save time second   fff: Save time millisecond (three digits)

{page number} ....Three digit number indicating the page of the output source file. Image files are numbered sequentially starting from 001 and continuing up to 200 (the maximum number of allowable pages).

Converting a DST File to a PPG File

You can convert a DST file that was saved in the Capture & Draw Mode to a PPG file (which can be opened in the Presentation Mode) by changing is filename extension from .dst to .ppg. This makes it easy to incorporate images of a computer screen captured using the Capture & Draw Mode directly into a presentation. After you open a converted file in the Presentation Mode, you will be able to edit objects that were written or drawn on the image with the Pen or Marker Pen tool in the Capture & Draw Mode.

✎ **Important!** ————————————————————————

- Note that while reverse conversion of a PPG file created in the Presentation Mode to a DST file is theoretically possible by changing the filename extension from .ppg to .dst, the converted file may not open or display correctly in the Capture & Draw Mode.

This chapter explains how to use Dot Pattern Printer for CASIO, which is a virtual printer driver that can print documents with special dot patterns and output PPG files for use in the Interactive Whiteboard for CASIO PowerPoint Control Mode and Presentation Mode.

Dot Pattern Printer for CASIO Overview

This section explains what you can do with Dot Pattern Printer for CASIO, and how to perform the required product registration procedure.

What you can do with Dot Pattern Printer for CASIO

Dot Pattern Printer for CASIO is a virtual printer driver. When you are printing a document created with PowerPoint, Word, or some other application, you can specify Dot Pattern Printer for CASIO as the printer, which will allow you to perform the operations described below.

● Print special dot patterns into the printed pages of documents created with another application, creating what is called a "printed document with special dot patterns".

● Print a document with special dot pattern that includes an "operation palette*1" that can be used to perform certain Interactive Whiteboard for CASIO toolbox icon operations.

● Create a PPG file (from a printable document created with another application) that can be opened in the Presentation Mode of Interactive Whiteboard for CASIO and used to conduct a slideshow.

　*1 For more information, see "Printed Document with Special Dot Pattern Operations". See page 35 for information about the PowerPoint Operation mode operation palette, and page 45 for the Presentation Mode operation palette.

Important!

● A separate Anoto Qualified Printer or an Anoto Tested Printer is required to print documents with special dot patterns. Using another type of printer to print documents with special dot patterns can result in incorrect printing of dot patterns and abnormal colors.
Visit the website below for the latest information about Anoto Qualified Printers and Anoto Tested Printers (as of February 2013).
http://www.anoto.com/lng/en/pageTag/page:products/mode/sublist/documentId/1001/#Print

Registering Your Product (Serial Key Input)

The first time you use Dot Pattern Printer for CASIO, a serial key confirmation dialog box will appear. This dialog box will keep on appearing with each use until you input the serial key. The serial key is located in the Software License Certificate that comes with this system. The serial key confirmation dialog box will stop appearing once you input the serial key.

To input the serial key

1. **On the "File" menu of any application (such as PowerPoint), select "Print".**
   - The details of the print operation depend on the application you are using. See help or the user documentation of the application you are using for details.

2. **On the print dialog box that appears, select "Dot Pattern Printer for CASIO" as the printer.**

3. **The button that executes the print operation (normally [Print] or [OK]).**

4. **When the serial key confirmation dialog box appears, click [Input Serial Key].**
   - This will display a dialog box for inputting the serial key.

5. **Type the Dot Pattern Printer for CASIO serial key, which is included on the Software License Certificate, and then click [Register].**
   - A message will appear letting you know that the process is being performed, followed by the "Dot Pattern Printer for CASIO" dialog box.

   - To proceed from here to print a document with special dot patterns and/or to create PPG files, see "Printing Documents with Special Dot Patterns (for the PowerPoint Control Mode)" (page 72) or "Printing Documents with Special Dot Patterns and Creating PPG Files (for the Presentation Mode)" (page 74).
   - To exit the operation at this point, click [Cancel].

Printing Documents with Special Dot Patterns and Creating PPG Files

The operations in this section are presented for each Interactive Whiteboard for CASIO mode (PowerPoint Control Mode and Presentation Mode). When referring to a procedure, make sure it is the right one for the Interactive Whiteboard for CASIO mode you are using.

Dot Pattern Printer for CASIO Operating Precautions

Note the following precautions whenever printing a document with special dot patterns or creating a PPG file.

In the precautions below, the term "source file" means the PowerPoint, Word, or other application document used as the source for printing of the document with special dot patterns or PPG file creation. The term "Dot Pattern Printer for CASIO output" refers to both printed documents with special dot patterns and PPG files.

● A single Dot Pattern Printer for CASIO output job can contain up to 200 pages.
● Dot Pattern Printer for CASIO output adjusts colors to facilitate reading of dot patterns by the digital pen. Because of this, the color hues of Dot Pattern Printer for CASIO output may differ from those in the source file. The difference in color hues can be particularly noticeable when printing documents with special dot patterns on a non-Postscript printer.
● Generation of Dot Pattern Printer for CASIO output may take more time when the source file includes shading or gradations (such as PowerPoint fill effects).
● Changing to another user after logging into Windows with a user name that includes double-byte characters can result in not being able to print with Dot Pattern Printing for CASIO. If this happens, log off of Windows and then log back in again.

Printing Documents with Special Dot Patterns (for the PowerPoint Control Mode)

This section explains how to print documents with special dot patterns for use in the Interactive Whiteboard for CASIO PowerPoint Control Mode. For information about using printed documents with special dot patterns, see "Conducting a Slideshow in the PowerPoint Control Mode" (page 34).
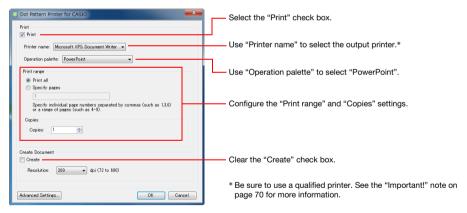
To print a document with special dot patterns for use in the PowerPoint Control Mode

✎ **Note**
● The procedure below is shown using a PowerPoint print dialog box. The actual appearance of the dialog box depends on the PowerPoint application version you are using. The procedure below is performed using PowerPoint 2010. Operations that are different for other versions are explained in the procedure notes.

1. **Prepare the PowerPoint file that you want to use for your Interactive Whiteboard for CASIO PowerPoint Control Mode slideshow.**

2. **Use PowerPoint to open the file you prepared in step 1. Next, on the "File" menu, select "Print".**

3. **On the print dialog box that appears, configure the print settings below.**
- – For "Printer", select "Dot Pattern Printer for CASIO". If you are using PowerPoint 2003 or 2007, use the "Printer Name" box to select "Dot Pattern Printer for CASIO".
- – Under "Settings" select "Print all slides". If you are using PowerPoint 2003 or 2007, select "All" for "Print range".
- ● To specify the print range and number of copies, use the "Dot Pattern Printer for CASIO" dialog box in step 10 of this procedure.

4. **On the PowerPoint application print dialog box, click [Printer Properties]. If you are using PowerPoint 2003 or 2007, click [Properties].**
- ● This will display the "Dot Pattern Printer for CASIO Document Properties" dialog box.

5. **Click [Advanced Settings] to display the "Advanced Settings" dialog box.**

6. **Use "Paper Size" to select the paper size.**

7. **Click [OK] to close the "Advanced Settings" dialog box and return to the properties dialog box.**

8. **Click [OK] to close the properties dialog box and return to the print dialog box.**

9. **Click [Print]. If you are using PowerPoint 2003 or PowerPoint 2007, click [OK].**
- ● A message will appear letting you know that the process is being performed, followed by the "Dot Pattern Printer for CASIO" dialog box.

10. **Configure the settings below on the dialog box.**

Select the "Print" check box.

Use "Printer name" to select the output printer.*

Use "Operation palette" to select "PowerPoint".

Configure the "Print range" and "Copies" settings.

Clear the "Create" check box.

* Be sure to use a qualified printer. See the "Important!" note on page 70 for more information.

- ● For information about settings that can be configured after you click [Advanced Settings], see "Configuring Advanced Settings on the Dot Pattern Printer for CASIO Dialog Box" (page 76).

11. **After configuring all the settings you want, click [OK].**
- ● This will print the document with special dot patterns from the specified printer.

Printing Documents with Special Dot Patterns and Creating PPG Files (for the Presentation Mode)
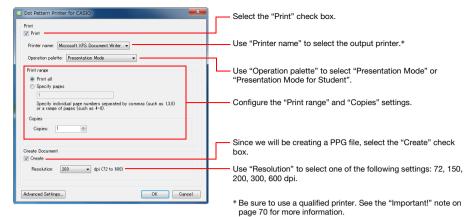
This section explains how to print documents with special dot patterns for use in the Interactive Whiteboard for CASIO Presentation Mode, and how to create PPG files. For information about using printed documents with special dot patterns and PPG files, see "Conducting a Slideshow in the Presentation Mode" (page 42).

To print a documents with special dot patterns and generate a PPG file for Presentation Mode use

1. **Prepare one PowerPoint, Word, PDF, or other application file that you want to use as the basis of the slideshow.**

2. **Open the file you prepared in step 1 of this procedure in its original application (for a PDF file, use Adobe Reader or the application you would normally use to open such a file) and execute the original application's print operation.**
- The details of the print operation depend on the application you are using. See help or the user documentation of the application you are using for details.

3. **On the original application's print dialog box that appears, configure the print settings below.**
- – Select "Dot Pattern Printer for CASIO" as the printer to use for printing.
- – For the print range, specify printing of all the pages in the document.
- To specify the print range and number of copies, use the "Dot Pattern Printer for CASIO" dialog box in step 11 of this procedure.

4. **On the original application's print dialog box, click the printer properties button (normally [Printer Properties] or [Properties]).**
- This will display the "Dot Pattern Printer for CASIO Document Properties" dialog box.

5. **Use "Orientation" to select the orientation of the print output and PPG file.**
- The orientation you specify here is applied to both the paper orientation when printing a document with special dot patterns and to the graphic images when creating a PPG file.
- Some applications do not use the "Orientation" settings when printing documents and outputting PPG files.

6. **Click [Advanced Settings] to display the "Advanced Settings" dialog box.**

7. **Use "Paper Size" to select the paper size.**
- The size you specify here is also reflected in the graphic image created for the PPG file.

8. **Click [OK] to close the "Advanced Settings" dialog box and return to the properties dialog box.**

9. **Click [OK] to close the properties dialog box and return to the print dialog box.**

10. **On the original application's print dialog box, click the button to start printing (normally [Print] or [OK]).**
- A message will appear letting you know that the process is being performed, followed by the "Dot Pattern Printer for CASIO" dialog box.

11. **Configure the settings below on the dialog box.**

Select the "Print" check box.

Use "Printer name" to select the output printer.*

Use "Operation palette" to select "Presentation Mode" or "Presentation Mode for Student".

Configure the "Print range" and "Copies" settings.

Since we will be creating a PPG file, select the "Create" check box.

Use "Resolution" to select one of the following settings: 72, 150, 200, 300, 600 dpi.

* Be sure to use a qualified printer. See the "Important!" note on page 70 for more information.

- Use the "Resolution" setting to specify the resolution to be used when converting graphic images of the file you opened in step 2 of this procedure to a PPG file. The initial default setting is 200 dpi. A smaller value produces a coarser image and a smaller file. A larger value results in a finer image and a larger file.
- Interactive Whiteboard for CASIO will not be able to open a page that is 10,000 or more pixels in width or height. Be sure to set a resolution in accordance with the paper size so the resulting page is less than 10,000 pixels in width and/or height.
  For example, when using landscape orientation A2-size paper, a setting of 300 dpi results in a page size of 7,016 × 4,961, while 600 dpi produces a page size of 14,031 × 9,921. This means you should use a resolution setting of 300 dpi or lower.
- For information about settings that can be configured after you click [Advanced Settings], see "Configuring Advanced Settings on the Dot Pattern Printer for CASIO Dialog Box" (page 76).

12. **After configuring all the settings you want, click [OK].**
- This will print the document with special dot patterns from the specified printer.
- Next, a dialog box for saving the PPG file will appear.

13. **Use the [Save] dialog box to specify a file name and a storage location, and then click [Save].**

Configuring Advanced Settings on the Dot Pattern Printer for CASIO Dialog Box

Clicking [Advanced Settings] on the Dot Pattern Printer for CASIO dialog box (page 73, 75) will display an "Advanced Settings" dialog box like the one shown below.

This dialog box can be used to configure the settings described below.

Setting	Description
Page size information	Specifies whether or not original source file page size information should be sent to the printer. Page size information is sent when the "Use" check box is selected (default setting). Page size information is not sent when the check box is cleared.
Color separation	Specifies the color separation method used for the output source file. This setting helps to improve the ability of the digital pen to read dot patterns on a document printed with special dot patterns. The following are the available options for this setting. Standard (default): With this setting, the blacks in the source file are not converted to any color that may affect digital pen reading. UCR compatible printer: Select this setting when correct color separation is not performed with the "Standard" setting. One reason incorrect color separation may occur is when a printer uses black toner in areas of images that have dark colors. Do not perform.: Select this option to disable color separation.
Additional parameters	You can use this text box to input additional parameters. Normally, you should leave this text box blank.

To apply any changes you made on the "Advanced Settings" dialog box, click [OK]. To close the dialog box and discard your changes, click, [Cancel]. Clicking either button returns to the "Dot Pattern Printer for CASIO" dialog box.
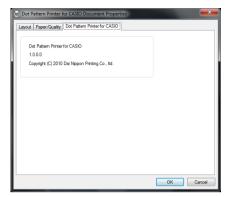
Important!

● You normally should never need to change the settings of the "Advanced Settings" dialog box. Changing these settings can result in problems that make it impossible to print documents with special dot patterns. If this happens, click the [Revert to initial defaults] button on the "Advanced Settings" dialog box to return all of its settings to their factory defaults.

Checking Your Dot Pattern Printer for CASIO Version

To check the version of your Dot Pattern Printer for CASIO install, click the "Dot Pattern Printer for CASIO" tab on the "Dot Pattern Printer for CASIO Document Properties" dialog box that is displayed in step 4 under "To print a document with special dot patterns for use in the PowerPoint Control Mode" (page 72) and step 4 under "To print a documents with special dot patterns and generate a PPG file for Presentation Mode use" (page 74).

Chapter 4: Troubleshooting

Check the information in this section whenever you experience any problems while using your Interactive Whiteboard.

Digital Pen and Dot Screen Troubleshooting

There is no response to digital pen operations on the dot screen or printed documents with special dot patterns with the digital pen.

Probable Cause	Required Action
The digital pen battery is dead.	Replace the battery.
The digital pen is turned off.	● Inadvertently depressing the switch on the pen that detects whether the cap is in place (and turns it off when it is) with your finger will cause the digital pen to turn off. Release the switch (so it is not depressed), which will turn on the digital pen and restore normal operation. ● Digital pen power will turn off automatically if it is left with its cap removed for about seven and a half minutes without performing any pen operation. If this is the cause, replace the cap and then remove it again.
You are blocking the camera lens in the nib of the digital pen with your finger, etc.	The digital pen has a built-in camera that reads what is under the pen. Proper pen operation will not be possible if the camera lens becomes blocked by your finger or something else. Check to make sure that the camera lens is not being blocked by something.
DSPD is not running or it was installed incorrectly.	Digital pen operation requires the DSPD digital pen driver (page 17). Check the points below. ● Is the DSPD icon ( ) displayed in your computer's task tray? If it isn't, restart your computer. If the icon does not appear after your computer restarts, reinstall DSPD. ● Is the DSPD icon ( ) in your computer's task tray red? This means that your DSPD has generated an error. Re-install DSPD. For information about how to re-install, see "Re-installing the Software" (page 87).
The digital pen is not paired with your computer.	Digital pens need to be paired individually, one by one. Refer to "Establishing a Connection between the Digital Pen and Computer (Pairing)" (page 12) and pair the digital pen with your computer.
The Bluetooth adapter was moved to a different USB port.	As a general rule, the Bluetooth adapter must stay connected to the USB port where it was originally connected on a computer. Moving the Bluetooth adapter to a different USB port will cause it to be recognized by the computer as a new USB device, and you will have to re-install the driver and reconfigure all of the required settings. If you do move the Bluetooth adapter to another USB port, you will need to pair all of your digital pens with the computer.

Probable Cause	Required Action
The connection between the digital pen and computer has been broken.	Check the points below. ● Is the Bluetooth icon (🛱) displayed in your computer's task tray? If not, click the arrow button on the left side of the task tray to display hidden icons. It the icon still does not appear, it probably means there is no Bluetooth adapter connected to the computer. Connect a Bluetooth adapter to your computer (when reconnecting a Bluetooth adapter, always connect to the same USB port where you originally connected and configured it). If your computer has a built-in Bluetooth adapter, perform the required operation on your computer to enable the Bluetooth adapter. Note that your Bluetooth adapter must be Microsoft stack or TOSHIBA stack. For details, see "Important!" on page 12. ● In the task tray, click the Bluetooth icon (🛱). On the menu that appears, select "Open Bluetooth Settings" (Windows XP) or "Open Settings" (Windows Vista, Windows 7, Windows 8). On the dialog box that appears, see if the "Allow Bluetooth devices to connect to this computer." check box selected. If the check box is cleared, select it. ● In the computer's task tray, click the Bluetooth icon (🛱). On the menu that appears, select "Show Bluetooth Devices". On the dialog box that appears, check the number of "ADP-301B" icons is the same as the number of digital pens you are using. If there are no "ADP-301B" icons or if the number of icons is less than the number of digital pens you are using, it probably means that digital pens were not paired with the computer or that pairing information was removed using the computer's device removal operation. Refer to "Establishing a Connection between the Digital Pen and Computer (Pairing)" (page 12) and pair the digital pen with your computer. ● Are you using a Bluetooth stack recommended under "Minimum Computer System Requirements" (page 17) as the Bluetooth adapter driver? The digital pen will operate only with the recommended Bluetooth stacks, not with a driver that came with a commercially available Bluetooth adapter, not with the driver pre-installed with a computer's built-in Bluetooth adapter, etc. For details, see "To connect a Bluetooth adapter to your computer" (page 13). ● Are you using an incompatible Bluetooth adapter? Connect a commercially available Bluetooth adapter that supports the Bluetooth version 2.0 HID (Human Interface Device) to your computer.

The operation I am trying to perform with the digital pen is different from the location I tap on the dot screen.

Probable Cause	Required Action
The dot screen is dirty.	You can erase characters and figures drawn with the provided marker or a commercially available marker with the provided melamine foam eraser or with a commercially available melamine type whiteboard eraser. If an eraser does not completely remove markings, wipe with a cloth moistened with water.
Calibration settings are not correct.	Perform the procedure under "To perform calibration" (page 28).
The projected image is distorted.	Adjust the positions of the projector and screen so the projected image forms a rectangle.
You are not holding the digital pen properly.	How the digital pen is held affects the coordinate information it picks up. Hold the digital pen so its nib is facing downwards as you perform operations.
Radio wave interference from another wireless device or household appliance.	Move the wireless device (Bluetooth device, wireless LAN device, etc.) and/or household appliance (microwave oven, etc.) that you think may be causing the interference or move away from the dot screen or turn it off.

There is no response to digital pen operations on a printed document with special dot patterns.

Probable Cause	Required Action
A non-qualified printer was used to print the document.	Use only an Anoto Qualified Printer or an Anoto Tested Printer to print documents. Visit the website below for the latest information about Anoto Qualified Printers and Anoto Tested Printers (as of February 2013). http://www.anoto.com/lng/en/pageTag/page:products/mode/sublist/documentId/1001/#Print
Printing a document on colored paper or with duplex (two-sided) printing.	Use of documents printed on colored paper or with duplex (two-sided) printing is not supported. Use a document printed on one side of white paper (wood-free paper, copy paper, etc.)

I can't affix the dot screen to a surface.

Probable Cause	Required Action
The surface does not contain ferromagnetic material.	The backing of the dot screen is magnetic, so it can be affixed to a metal wall or any other ferromagnetic material surface that attracts a magnetic. Unroll the dot screen to a vertical wall or other surface made of ferromagnetic material (such as a metal blackboard) and it should adhere securely.
The surface is dirty.	Wipe the surface to remove dirt and foreign matter. If you wipe with a wet cloth, make sure the surface is completely dry before affixing the dot screen.

Interactive Whiteboard for CASIO Troubleshooting

Probable Causes and Required Actions

I can't draw or write with the digital pen on the dot screen or on a document with special dot patterns.

Probable Cause	Required Action
The digital pen you are using is not supported.	Use the digital pen included with this system or an optionally available CASIO DP-301 digital pen.
The surface being projected to is not a dot screen.	You cannot use the digital pen to draw or write on the image if it is being projected onto any other type of screen or surface other than the dot screen that comes with this system. Be sure to use only the dot screen that comes with this system.
The document cannot be recognized by the digital pen.	Use a printed document with special dot patterns that was output with Dot Pattern Printer for CASIO.
Interactive Whiteboard for CASIO is no installed correctly.	Check to see if Interactive Whiteboard for CASIO is displayed in the DSPD application list (page 84). If it isn't, re-install Interactive Whiteboard for CASIO. For information about how to re-install, see "Re-installing the Software" (page 87).

If none of the above actions solve the problem, refer to the information under "There is no response to digital pen operations on the dot screen or printed documents with special dot patterns with the digital pen." (page 78).

When conducting a slideshow using a PowerPoint file the operation I am trying to perform with the digital pen is different from the location I tap on the dot screen or a printed document with special dot patterns.

Probable Cause	Required Action
The PowerPoint file slideshow was not started up from Interactive Whiteboard for CASIO.	To use a PowerPoint file, be sure to start the slideshow by dropping the file onto the PowerPoint Control Mode Toolbox of Interactive Whiteboard for CASIO.
There is a problem with the information specified on the "Paper settings" dialog box that appeared when the slideshow was started.	On the "Paper settings" dialog box that appears during the procedure under "To start a slideshow in the PowerPoint Control Mode" (page 34), make sure that the paper size, orientation, and paper type (slide/note) settings are configured correctly.
The version of the PowerPoint application you are using to conduct the slideshow is different from the version used to print the document.	If the version of PowerPoint you use to print a document with special dot patterns is different from the version used to conduct the slideshow can cause text sizes and positions to change so the printed document and projected document are different. Make sure that the PowerPoint version being used to conduct the slideshow is the same as the version used to print the document.

If none of the above actions solve the problem, refer to the information under "The operation I am trying to perform with the digital pen is different from the location I tap on the dot screen." (page 80)

When I tap a page in a printed document with special dot patterns with the digital pen, a different page is displayed.

Probable Cause	Required Action
Settings were wrong when printing the document with special dot patterns.	Selecting a range of pages for printing (instead of all pages) on the print dialog box of the application you are using for printing will result the pages of the printed document with special dot patterns not corresponding with the source file pages. Always be sure to specify all pages as the print range on the print dialog box of the application you are using for printing. You can specify a range of pages on the separate "Dot Pattern Printer for CASIO" dialog box. For details, see "Printing Documents with Special Dot Patterns and Creating PPG Files (for the Presentation Mode)" (page 74).

I can't open a PPG file.

Probable Cause	Required Action
The resolution setting used when outputting the PPG file was too high.	Use the source file to re-create the PPG file. When you do, use a smaller value for the "Resolution" setting on the "Dot Pattern Printer for CASIO" dialog box.

The currently displayed page has a large X across it.

Probable Cause	Required Action
You are attempting to run multiple instances of Interactive Whiteboard for CASIO. Interactive Whiteboard for CASIO has been running nonstop for a long time.	The system will display a large X mark across the currently displayed page whenever memory is low or when there is some other computer system problem. If this happens, perform the steps below. ① Exit all currently running applications except for Interactive Whiteboard for CASIO. ② Save all currently open Interactive Whiteboard for CASIO files and exit Interactive Whiteboard for CASIO. ③ Restart your computer.

Known Issues

As of February 28, 2013, the issues described below have been confirmed for Interactive Whiteboard for CASIO (Version 1.0.0).

- When using multiple digital pens for writing and drawing, changing the line type for one digital pen may cause the line type of a different digital pen to change.
- During PowerPoint 2010 slideshows, changing to another page after making a pen or highlighter pen selection with the operation palette will not retain the pen selection.
  This problem can be resolved by updating Office 2010 to Service Pack 1. Update your Office 2010 install to Service Pack 1 or higher.

Dot Pattern Printer for CASIO Troubleshooting

Probable Causes and Required Actions

A landscape orientation source file is being output in portrait orientation, causing parts of the image to be cut off.

Probable Cause	Required Action
The "Page size information" check box is not selected.	On the "Dot Pattern Printer for CASIO" dialog box, click [Advanced Settings]. Next, under "Page size information", select the "Use" check box.
The orientation setting on the properties screen is not correct.	On the print dialog box of the application you are using for printing, click the button for displaying printer properties (normally [Printer Properties] or [Properties]). Select the "Layout" tab and then use "Orientation" to select "Landscape".

The orientation setting is correct, but the image is still cut off.

Probable Cause	Required Action
The data of the output source file is outside of the print area.	The printed image will be cut off if the data on the pages of the source file is not within the print area. With the application originally used to create the source file, edit the content data so it is within the print area.

Some of the pages in the source file are not printed. (Printing stops part way through.)

Probable Cause	Required Action
You are attempting to print a file that has more than 200 pages.	A single document with special dot patterns print job can contain up to 200 pages. Divide up the source file so each part is 200 pages or fewer, or specify the print range (on the "Dot Pattern Printer for CASIO" dialog box) so the print job does not exceed 200 pages.

I can't open a PPG file with Interactive Whiteboard for CASIO.

Probable Cause	Required Action
The resolution specified on the "Dot Pattern Printer for CASIO" dialog box is too high.	Use a smaller value for the "Resolution" setting on the "Dot Pattern Printer for CASIO" dialog box.

Known Issues

As of February 28, 2013, the issues described below have been confirmed for Dot Pattern Printer for CASIO (Version 1.0.0.0).
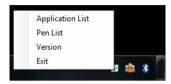
- Printing may not be possible or may not be performed correctly when printing a document that contains pages of different orientations or different sizes.
- Non-Postscript (GDI) printers support output of A-sizes only.
  If you want to output a B-size, use a Postscript printer.
- Printing is not supported with a printer that manages output by users.
- The form of fonts in a printed document with special dot patterns and output PPG file may differ from the form of the fonts in the source file.

DSPD Management Functions

DSPD includes functions that send data received from the digital pen to the applicable digital pen application (Interactive Whiteboard for CASIO).

Though you normally never need to do anything concerning DSPD, you can use the menu that appears when you right-click the DSPD icon ( ) on your computer's task tray to perform the operations described below.

Menu Item	Function
Application List	Displays information about applications registered with DSPD.
Pen List	Displays the status (running or not running) of pens connected to the computer by DSPD.
Version	Display DSPD version information.
Exit	Exits DSPD.

Note
- Selecting "Exit" on the above menu exits DSPD and causes the DSPD icon ( ) to disappear from the task tray. To restart DSPD, either restart the computer or perform the operation below.
  Windows XP, Vista, or 7: Click [Start] → [All Programs] → [dnp] → [dspd] → [dspd].
  Windows 8: On the Start screen, click the [dspd] tile.

Caring for the Dot Screen

A dirty dot screen can interfere with detection of the location where you write or draw with the digital pen, and can make data reading impossible. A dirty dot screen back can cause poor magnetic adhesion, and creates the risk of the dot screen falling from the surface to which it is attached. Carefully read the information in this section and periodically perform the procedures shown here to care for and maintain your dot screen.

To clean the front of the dot screen

1. **After making sure that the target surface is clean, affix the dot screen to it.**
- To avoid getting dust or other foreign matter on the surface of the dot screen, never allow it so come into direct contact with the floor.

2. **If the front of the dot screen is dirty, use a damp cloth that has been thoroughly wrung of all excess water to wipe it clean.**
- Wiping the dot screen with a wet cloth is recommended at least once a week.

3. **Use a clean cloth to dry the front of the dot screen.**

4. The dot screen is ready for use after it is completely dry.

To clean the back of the dot screen

When cleaning the back of the dot screen, roll it on to the roller bit by bit and wipe the back. This makes it possible to clean the back of the screen without creating wrinkles. To avoid getting dust or other foreign matter on the surface of the dot screen, never allow it so come into direct contact with the floor.

✎ Note ──
● To clean the supplied melamine foam eraser, remove the cloth/sponge part from the plastic case and wash it in a solution of water and a neutral detergent. After washing, allow the cloth/sponge part to dry thoroughly before using it again.

Stowing the Dot Screen

Use the procedure below to stow the dot screen.

1. Disconnect the safety hook.

2. Pressing the roll against the surface where the dot screen is attached, roll up the screen.
● Take care when rolling up the screen to ensure that it is straight and that there is no slack. To remove crookedness and slack, unroll the screen onto a surface and then roll it back up again. Trying to force the dot screen into position while it is rolled up can damage the screen.

3. Carefully remove the rolled up screen from the surface.
● Maintain approximately the same amount of pressure on the roller against the surface until the dot screen is completely rolled up. Failure to do so can cause the dot screen to fall from the surface.

4. Fold down the anti-slack wires on either end of the roll and hook them on to the end bar hooks.

5. Insert the rolled up screen in the screen case.

Uninstalling and Re-installing the Software

Uninstalling the Software

Be sure to use the CASIO_InteractiveWhiteboardsetup.exe file, which is located inside the folder named "setup_en", to uninstall the software.

To uninstall Interactive Whiteboard for CASIO

1. **Exit all programs currently running on your computer.**

2. **Open the Interactive Whiteboard software "setup_en" folder and then double-click "CASIO_InteractiveWhiteboardsetup.exe".**
   ● The Interactive Whiteboard for CASIO Setup Launcher window will appear.

3. **Click [Uninstall Interactive Whiteboard for CASIO].**
   ● After uninstall is complete, [Uninstall Interactive Whiteboard for CASIO] will change to [Install Interactive Whiteboard for CASIO]. Also, the [Uninstall DSPD] option will become enabled at this time.

4. **Click [Exit] to close the window, and then restart your computer.**

To uninstall the DSPD

1. **In your computer's task tray, right-click the DSPD icon ( ). On the menu that appears, click "Exit" to exit DSPD.**

2. **Perform steps 1 through 4 of the procedure under "To uninstall Interactive Whiteboard for CASIO".**

3. **Click [Uninstall DSPD].**
- Depending on the operating system your computer is running, a message may appear instructing you to close the Interactive Whiteboard for CASIO Setup Launcher. If such a message appears, click [Ignore] and proceed with the uninstall operation.
- After installation is complete, [Uninstall DSPD] will change to [Install DSPD]. Uninstalling DSPD will also cause [Install Interactive Whiteboard for CASIO] to become disabled.

4. **Click [Exit] to close the window, and then restart your computer.**

To uninstall Dot Pattern Printer for CASIO

1. **Exit all programs currently running on your computer.**

2. **Open the Interactive Whiteboard software "setup_en" folder and then double-click "CASIO_InteractiveWhiteboardsetup.exe".**

3. **Click [Uninstall Dot Pattern Printer for CASIO].**
- After uninstall is complete, [Uninstall Dot Pattern Printer for CASIO] will change to [Install Dot Pattern Printer for CASIO].

4. **Click [Exit] to close the window, and then restart your computer.**

Re-installing the Software

If you need to re-install the software in order to update it, because of a problem with the current install, or for some other reason, you need to uninstall your current install first.

The table below shows the steps you need to perform in order to re-install each one of the software items.

To re-install this software:	Perform these steps:
DSPD	① Uninstall Interactive Whiteboard for CASIO. ② Uninstall DSPD. ③ Install DSPD. DSPD cannot be uninstalled while Interactive Whiteboard for CASIO is installed.
Interactive Whiteboard for CASIO	① Uninstall Interactive Whiteboard for CASIO. ② Install Interactive Whiteboard for CASIO.
Dot Pattern Printer for CASIO	① Uninstall Dot Pattern Printer for CASIO. ② Install Dot Pattern Printer for CASIO.

Note
- User settings remain configured even after you uninstall Interactive Whiteboard for CASIO. To delete user settings as well (when you want to re-install Interactive Whiteboard for CASIO with initialized settings), delete "Interactive Whiteboard" folder, which is located in the folder Application Data\CASIO\.

Specifications

Digital Pen Specifications

Model Name: DP-301

External Dimensions: 159.5 mm × 20.5 mm × 18.2 mm (6.3" × 0.8" × 0.7") (Cap closed)

148 mm × Ø18.2 mm (5.8" × Ø0.7") (Cap removed)

Weight: 40 g (1.4 oz) (Including battery and cap)

Power Supply: One AAA-size battery

Operation Time: Approximately 6 hours (Continuous tapping of dot screen and/or printed document with special dot patterns)

Standby Time: Approximately 150 hours (Cap removed)

Data Communication: Bluetooth version 2.0 standard, HID profile

Data Communication Output: Class 2

Environment: Operating Temperature: 5 to 35°C (41 to 95°F)

Operating Humidity: 20 to 80% (non-condensation)

Dot Screen Specifications

Model Name: YA-W72M

External Dimensions: Ø85 mm × 1050 mm (Ø3.3" × 41.3") (Stored in screen case)

1607 mm (W) × 1000 mm (H) (63.3" × 39.4") (Screen unrolled)

Effective Screen Size: 1552 mm (W) × 970 mm (H) (61.1" × 38.2")

Weight: 3.1 kg (6.8 lbs) (Including screen case)

Model Name: YA-W82M

External Dimensions: Ø85 mm × 1180 mm (Ø3.3" × 46.5") (Stored in screen case)

1815 mm (W) × 1130 mm (H) (71.5" × 44.5") (Screen unrolled)

Effective Screen Size: 1760 mm (W) × 1100 mm (H) (69.3" × 43.3") (H)

Weight: 3.7 kg (8.2 lbs) (including screen case)

CASIO®

MA1306-B