

Teacher's + Choice

ELMO

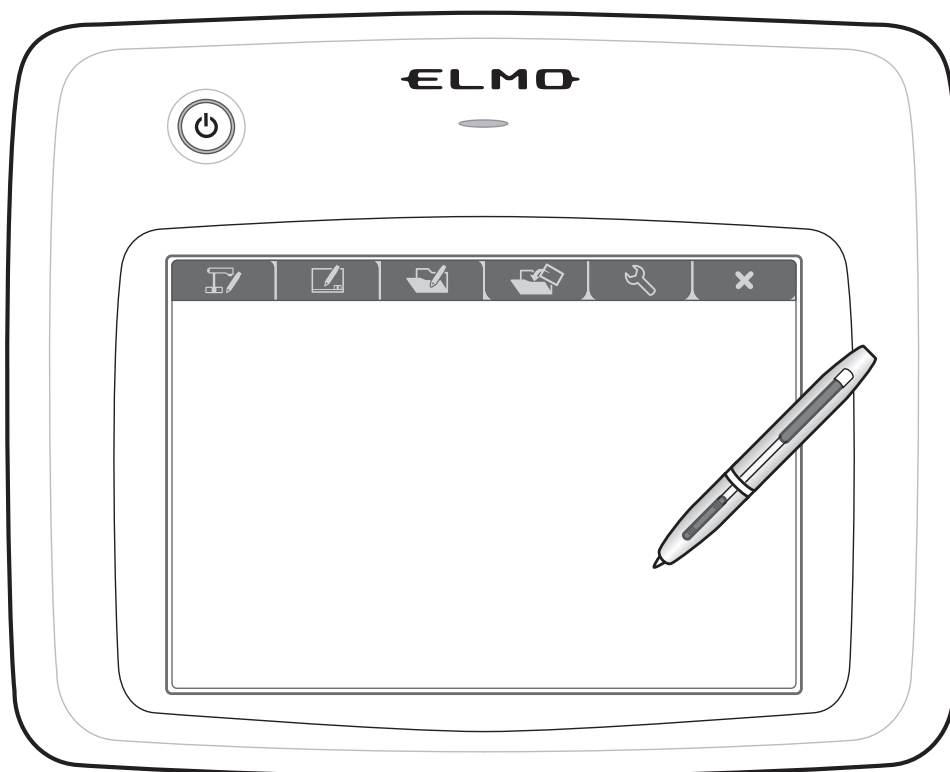
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# ELMO Wireless Slate / Tablet

CRA-1

User's Guide

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Please read this manual well before using CRA-1.

Please preserve this manual in preparation for the emergency importantly.

# IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at

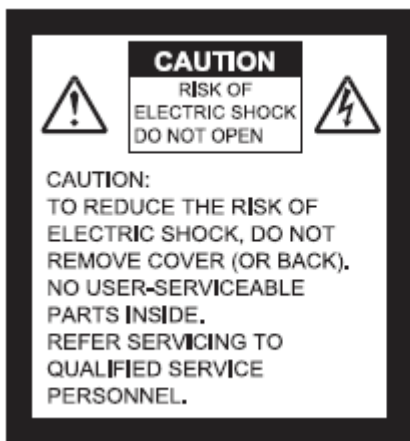
plugs, convenience receptacles, and the point where they exit from the apparatus.

- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.



When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. This marking is located at the bottom of product.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

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**WARNING:**

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.**

**WARNING:** Handling the cord on this product or cords associated with accessories sold with this product, will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.

**NOTICE:**

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by (manufacturer name) may void the FCC authorization to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna. • Increase the separation between the equipment and receiver. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help.

**Radiofrequency radiation exposure Information:**

The radiated output power of the device is far below the FCC radio frequency exposure limits. Nevertheless, the device shall be used in such a manner that the potential for human contact during normal operation is minimized.

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## Usage Precautions

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### About radio waves used by this product

This product uses radio waves on the 2.4 GHz band. When using this product, a radio station license is not necessary. However, please note the following cautions.

Do not use near the following:

- Microwave ovens, industrial, scientific or medical equipment, such as pacemakers
- In-factory radio stations for mobile unit identification systems (radio stations that require a license) used in production lines of factories.
- Specified low power radio stations (radio stations that do not require a license)
- IEEE802.11g/b wireless LAN units

When this unit is used near any of the equipment mentioned above, it is possible that electric wave interference could occur.

### About wireless equipment used on the 2.4 GHz band

This frequency bandwidth is the same as for industrial, scientific, and medical equipment such as microwave ovens, mobile unit identification systems (radio stations that require a license) used in factory production lines, and specified low-power radio stations (radio stations that do not require a license).

- Before using this device, check that there are no radio stations for mobile unit identification systems or specified low-power radio stations nearby.
- If this product emits radio waves which interfere with in-factory radio stations for mobile unit identification systems, cease use immediately and stop generating the radio waves. For information on countermeasures, etc. (for example, erecting partitions), contact one of our sales departments whose details are provided at the end of this manual.
- If this unit emits radio waves which interfere with specified low-power radio stations used for mobile unit identification systems, or causes similar problems, contact one of our sales departments whose details are provided at the end of this manual.

### About lithium-ion batteries

The lithium-ion battery that is used in the tablet is a rechargeable Li-ion battery. Because this lithium-ion battery is easily affected by temperature and humidity, store it in a dry location between 15 and 25°C.

During charging, after charging, and during use, the lithium-ion battery becomes warm.

Remove the lithium-ion battery from the tablet if it will not be used for a long time.

When using the lithium-ion battery, check that the outside and terminals of the battery are not deformed in any way. Deformed lithium-ion batteries can be very dangerous and should not be used under any circumstances.

The lithium-ion battery's service life is reduced if frequent top-up charging is performed.

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For unneeded lithium-ion batteries, cover the metallic sections with insulating tape such as Scotch Tape, and recycle them in accordance with your local regulations, or take them to one of our sales departments whose details are provided at the end of this manual.

## **Replacing the lithium-ion battery**

If the unit can only be used for an extremely short time or the power does not come on, the lithium-ion battery has reached the end of its service life.

Please purchase a new lithium-ion battery from one of our sales departments whose details are provided at the end of this manual.

Note that the lithium-ion battery is considered to be a consumable item and therefore a fee is charged even if it falls within our warranty period.

## **About the operating environment and storage**

- This model is for indoor use only. It cannot be used outdoors.
- Do not place the product in a damp or dusty location, in a location exposed to the sea breeze, or in an area exposed to high vibration.

The operating environment conditions are as follows.

Temperature: 0 to 40°C

Humidity: 30 to 90% (no condensation)

- Do not store in a location exposed to direct sunlight or near to heating equipment. Discoloration, deformation or malfunctions could result.

## **Maintenance**

Remove the connected cable and the lithium-ion battery, and store this product in a location that is not subject to humidity or moisture.

- Remove any dirt from the product with a soft, dry cloth.
- To remove stubborn dirt, dilute some detergent in water, dip a soft cloth in the water, and then ring it out before using it to wipe away the dirt. Do not use any volatile solvents such as thinner or benzene.

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## Before Use

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Please note that screens and figures used in this manual may differ from the actual views.

Thank you very much for purchasing this product.

Please read this manual carefully to make suitable use of this product. Also, please be sure to refer to any supplemental information included with this product.

## Main functions

This product is an educational tool for making lessons using ELMO's Document Camera more enjoyable and easier to understand.

The product has various indispensable features for teaching more effective lessons.

### - Drawing on the Document Camera image

Because you can draw directly onto the Document Camera image, you can directly communicate the important points that cannot be explained fully just by display.

### - Large and viewer-friendly screen

Equipped with an innovative user interface born from ELMO's in-depth knowledge of lessons using Document Cameras. The icons are large and easy to remember, and are simple to operate from anywhere in the classroom. This provides powerful support for your lessons.

### - Wireless function brings new possibilities

Thanks to the USB wireless communication, you are free to draw up to 15 meters away from the computer.

### - Various recording methods are available immediately

With "Lesson recording", you can easily record both the text written on the Document Camera and audio. Easy, one-touch playback can be performed of recorded images. Both the examples that you want to show the students and any written text are recorded together, so you can show them to students again to help with their learning.

Other recording methods are also available to suit different objectives. "Intermittent recording" enables the monitoring of changes over a long period of time, while "Frame recording" allows you to record only the scenes that you want.

### - Effortless creation of the required teaching materials

You can create teaching materials for lessons with the Document Camera. It is simple to retrieve the created teaching materials for use in class. This product is designed especially for use while lessons are in progress, enabling you to teach a wide range of lessons without interrupting the flow of the class.



## System requirements

<b>Computer model</b>	IBM PC/AT compatible
<b>Operating system (OS)</b>	Microsoft Windows XP Home Edition / Professional SP2 Microsoft Windows Vista Home Basic / Home Premium / Business / Enterprise / Ultimate SP1 Microsoft Windows 7 Starter / Home Premium / Professional / Ultimate
<b>CPU</b>	Intel Core 2 Duo 2 GHz equivalent or higher
<b>Memory</b>	2 GB or higher
<b>Hard disk</b>	1 GB or higher
<b>Video Board</b>	Correspond to Microsoft DirectX 9.0c
<b>Screen resolution</b>	1024×768 pixels or higher 32-bit or higher
<b>USB</b>	USB 2.0 HI-SPEED
<b>Compatible document cameras</b>	<ul style="list-style-type: none"><li>· L-1ex</li><li>· L-1zero</li><li>· L-1zero r</li><li>· TT -02RX</li><li>· TT -02s</li><li>· L-1n</li><li>· P10S</li><li>· P30S</li><li>· P10</li><li>· HV-110u</li><li>· FF-1</li><li>· CO-10 ( i-Pochette )</li></ul>



Caution

- If a sound device cannot be used, some of the functions may not operate.
- Operation is not guaranteed for all computer environments.

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# Supplied Items

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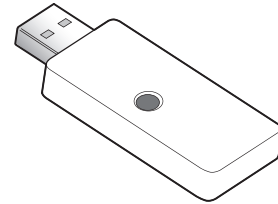
The product's package has the following contents. Contact your dealer if any of the following items are not included in the package you purchased.



Tablet



Pen



Wireless adapter



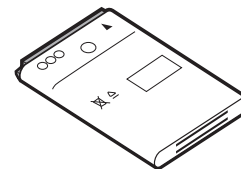
Tweezers for replacing the extra cores



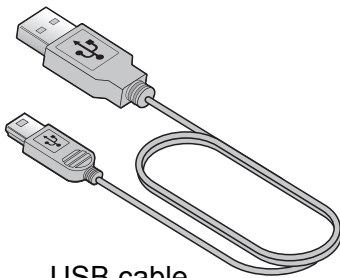
Extra core x3



Dry cell AAA battery (For the pen)



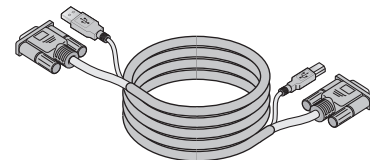
Lithium-ion battery for tablet



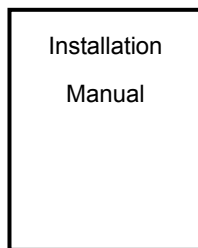
USB cable for charging



Application software (Image Mate Accent) CD-ROM



RGB / USB composite cable (For connecting Document Camera to computer)



Installation Manual

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# Preparations

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## Software installation and uninstallation

### ■ Installation

To use this product, you need to install Image Mate Accent on the computer you are using. Use the following procedure to install the software.

1. Insert the supplied CD in the computer's CD drive.
2. Select "Install Image Mate Accent" from the menu.



Caution

Depending on your environment, the menu may not be displayed automatically. Run "Win → startup.exe" from the CD drive.

3. Follow the on-screen instructions to install.



Caution

Depending on your environment, a warning message may appear about compatibility with the hardware or digital signatures. No problems will occur, so continue with the installation.

4. When installation is complete, the "Image Mate Accent" icon is displayed on the desktop.



Caution

Depending on your environment, you may be prompted to restart the computer. Follow the instructions to restart the computer.

### ■ Uninstallation

To remove Image Mate Accent from your computer, remove it using your OS's uninstall function.



Caution

There is no influence on other software though a part of data might remain in uninstallation for reinstalling.

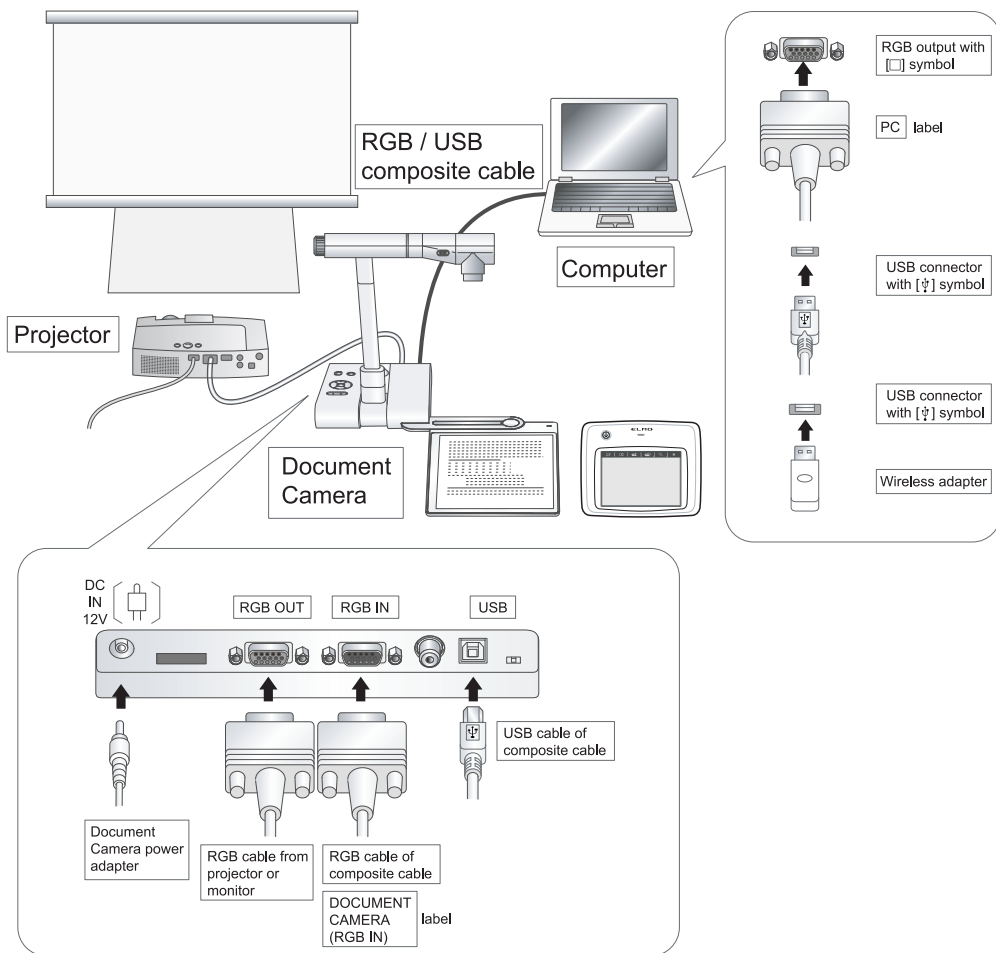
# Connections

This section shows a connection example for the effective use of this product.

■ Items to prepare

This product, and items supplied with this product	Items sold separately
<ul style="list-style-type: none"> <li>● Tablet</li> <li>● Wireless adapter</li> <li>● RGB / USB composite cable</li> </ul>	<ul style="list-style-type: none"> <li>● Document Camera</li> <li>● Computer</li> <li>● Projector</li> <li>● RGB cable</li> </ul>

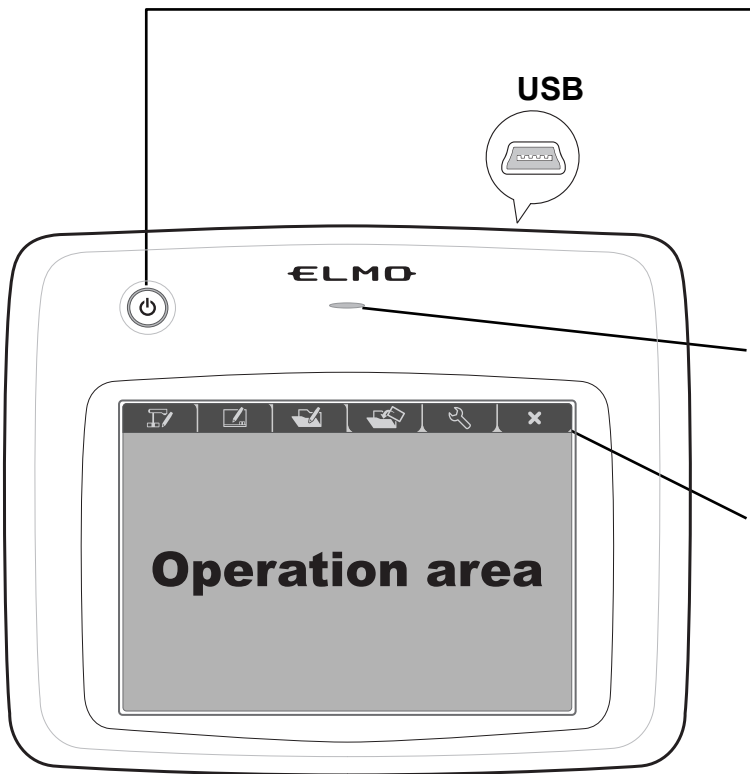
(1) Arrange the parts and connect the cables as shown in the figure.



For more details about the installation and operation of each device, see the corresponding User's Guide.

# Part Names

## Tablet



### Power button

Turns the tablet ON or OFF.  
Press the button for 3 seconds or more to turn the tablet OFF.  
When the power is ON, it is lit blue.  
When the battery charge is low, it flashes.

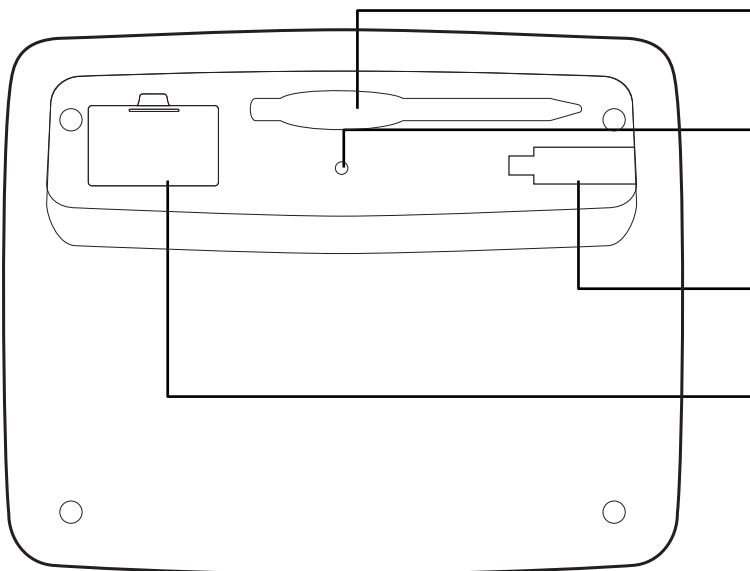
### Status LED

Indicates the wireless and battery charge status.

### Function keys

Enables quick Image Mate Accent operations. See [<Function keys>](#) for more details.

## Tablet base



### Pen slot

Holds the pen.

### Wireless settings button

Used when performing communication settings with the wireless adapter.

### Wireless adapter storage slot

Insert the wireless adapter.

### Battery box

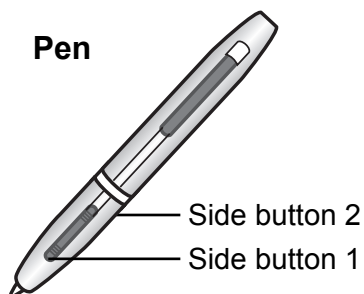
Only install a lithium-ion battery made for this product.



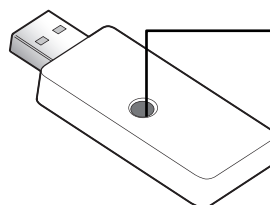
Caution

Only open when absolutely necessary.

## Pen



## Wireless adapter



### Wireless settings button (LED)

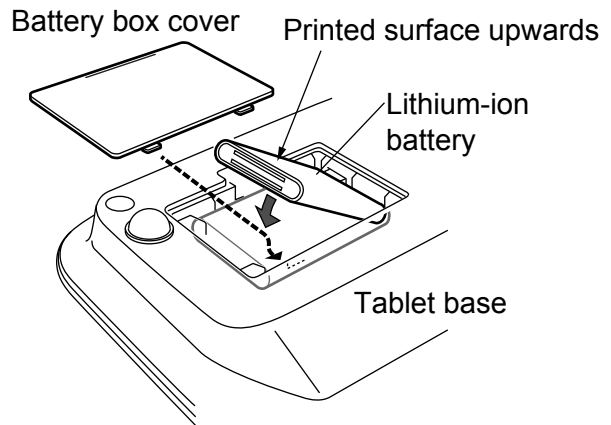
Used when performing communication settings with the tablet.

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## Charging the tablet

### (1) Install the lithium-ion battery in the tablet.

Install the supplied lithium-ion battery in the battery box on the base of the tablet.



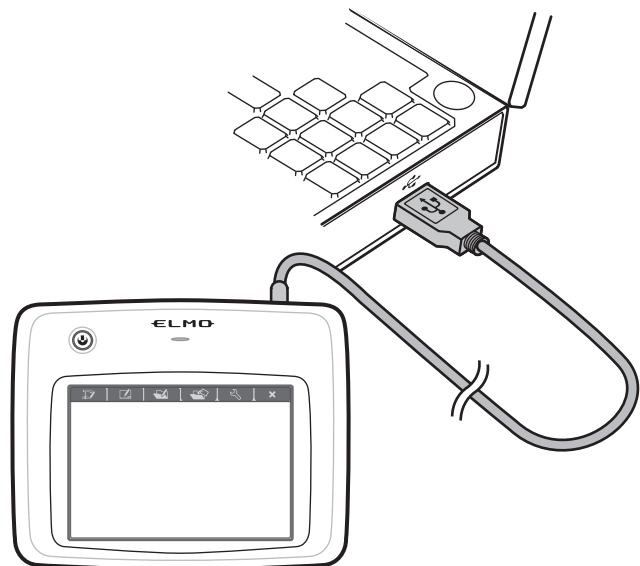
Note the insertion direction of the lithium-ion battery.  
Only open the battery box when necessary.

### (2) Connect the computer and the tablet via a USB cable for charging.

When charging starts:  
The "Status LED" in the center of the tablet is lit.

When charging is complete:  
The "Status LED" turns off.

Charging time: Approx. 4 hours

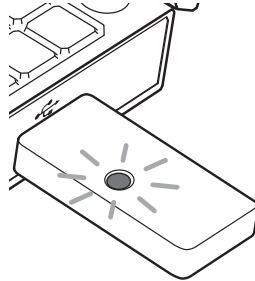


Disconnect the USB cable for charging from the tablet when charging is complete.  
Disconnect the USB cable for charging from the tablet before you use it.

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## Tablet preparations

### (1) Connect the wireless adapter to the computer's USB port.

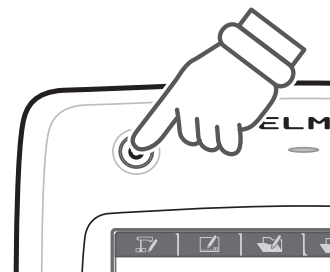


### (2) Turn on the tablet.

(1) When you press the power button, the power LED is lit.

\* If the power LED flashes or stays off, there is not enough charge in the lithium-ion battery. Charge the lithium-ion battery.

(2) If the "Status LED" on the tablet flashes repeatedly and communication is not possible, see <If tablet communication cannot be performed>.



Caution

If this product is used as described below, the communication range between the tablet and wireless adapter may be shortened, or communication may become unstable.

- There is an obstruction between the tablet and wireless adapter
- The product is used while placed on top of a computer
- A wireless device or electronic equipment is being used nearby
- The tablet is moved while being used

Also, due to the inherent characteristics of wireless communication, the communication may become unstable in some positional relationships between the tablet and wireless adapter.

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■ **If tablet communication cannot be performed (Status LED flashes)**

Perform the wireless settings using the "Wireless settings buttons" on the base of the tablet and the wireless adapter.

Turn ON the tablet's power, and press the "Wireless settings button" on the rear side.



The "Status LED" flashes at high speed.

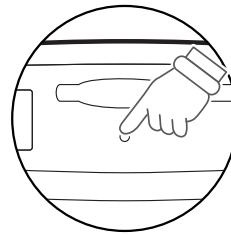


Press the "Wireless settings button" on the wireless adapter.

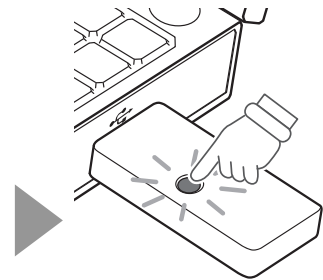


The "Status LED" on the tablet turns off for a few seconds.

When the "Status LED" turns off, the tablet and wireless adapter can communicate, and the tablet can be used.



Tablet rear side



Wireless adapter



Caution

Perform the wireless setting within 30 seconds of pressing the "Wireless settings button" on the rear side of the tablet.



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## About the LEDs

The power button LED and status LED on the tablet and the wireless settings button LED on the wireless adapter indicate the status of the devices.

### ■ Power LED

LED status	Operation
OFF	Power is OFF. Press the power button to turn the power ON.
Lit	Power is ON. Press the power button for 3 seconds to turn the power OFF.
Flashing	There is not enough charge in the lithium-ion battery. Charge the battery.

### ■ Status LED

LED status	Operation
OFF	When the power is ON, communication with the wireless adapter is being performed correctly.
High-speed flashing (Turns ON and OFF every 0.5 second)	The wireless settings button is pressed.
Flashing (Turns ON and OFF every 1 second)	Cannot communicate with the wireless adapter. See <If tablet communication cannot be performed>.
Lit	Charging.

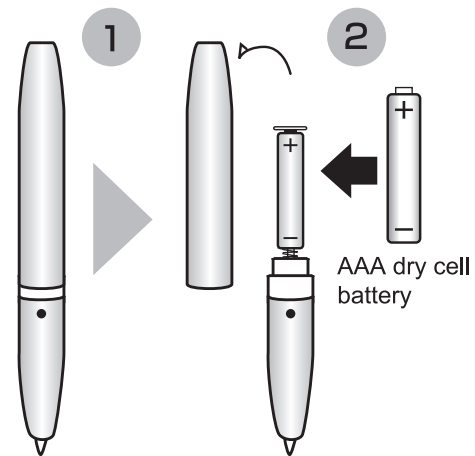
### ■ Wireless settings button LED

LED status	Operation
OFF	The computer's power is not ON, or when the power is ON, communication with the tablet is being performed correctly.
High-speed flashing	The wireless settings button for the wireless adapter is pressed.
Flashing	Cannot communicate with the tablet. See <If tablet communication cannot be performed>.

## Using the Pen

### ■ Installing the dry cell battery

Install the dry cell battery in the pen before use.



- Pay attention to the polarity (+/-) of the dry cell battery.
- Remove the dry cell battery if the pen will not be used for a long time.
- Do not try to recharge or short-circuit the dry cell battery.
- Use an AAA alkali dry cell battery. Do not use a rechargeable battery (such as Ni-cd).
- The supplied dry cell battery is for an initial operation check. Its operating life is not guaranteed.

### Battery replacement period

When the dry cell battery is running low, the operability may deteriorate.



- Be careful because the dry cell battery may pop out when you remove the pen cap.
- You should replace the dry cell battery at least once a year.

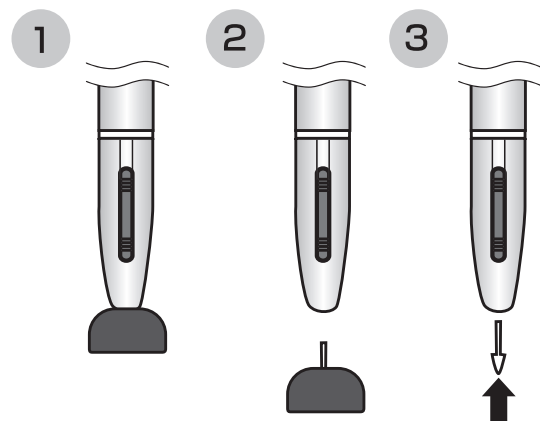
### ■ Replacing the pen tip

When the pen tip becomes round, replace it with the supplied "extra core".

Use the supplied extra core replacement tweezers when replacing the pen tip.

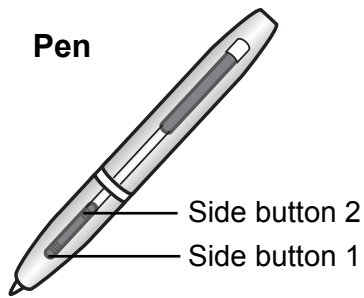


- When replacing the pen tip, be sure to replace it with a supplied "extra core".
- Make sure that children do not put small parts into their mouths.



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## ■ Setting the side buttons and pen

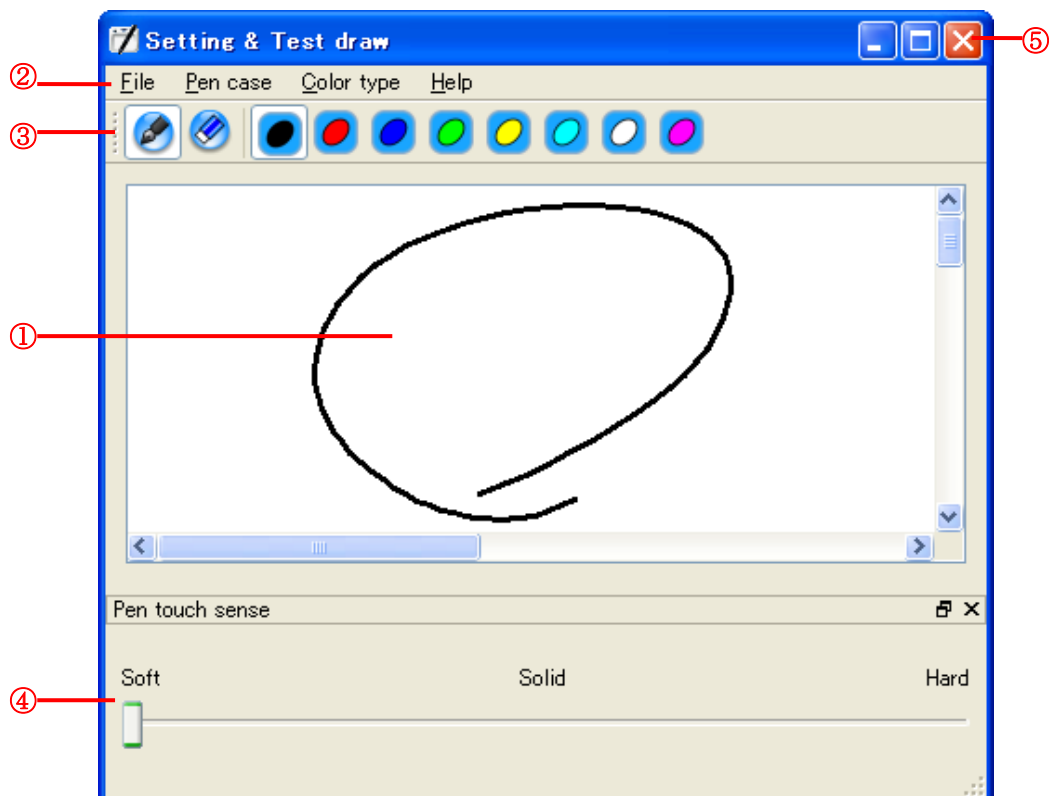



The pen is equipped with "side buttons" to provide assistance with pen operations.

- (1) Place the cursor on the "Tablet driver" icon that is displayed on the taskbar, click side button 2 (for the initial setting) or right-click, and then select "Setting" in the menu that appears.



- (2) The tablet driver Setting & Test draw screen is displayed.



①	Drawing area	It is a trial drawing area to confirm pen touch sense.
②	Menu	Setting drawing and operate application.
③	Drawing setting	Deletes all the lines that are drawn on the screen when push eraser button. Setting color of pen by the color buttons.
④	Pen touch sense	Sets the value determining when the pen has touched the tablet. When the value is hardened, you need to press more firmly to draw a line. If cursor movements are generating unintended drawing and tapping, harden the value.  <div style="border: 1px solid black; padding: 5px; display: inline-block;">   <b>Caution</b> </div> When the pen touch sense is changed, please wait for about one second with the pen away from the tablet.
⑤	Close button	Close Setting & Test draw screen.



- Only when the tablet is connected, Pen touch sense is displayed.

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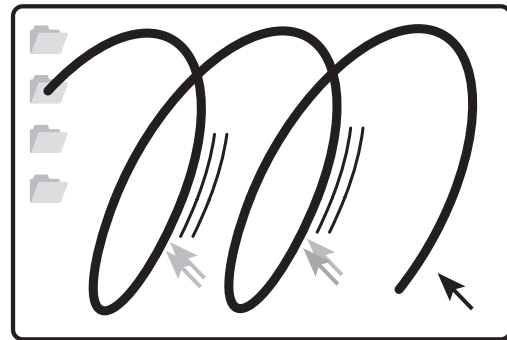
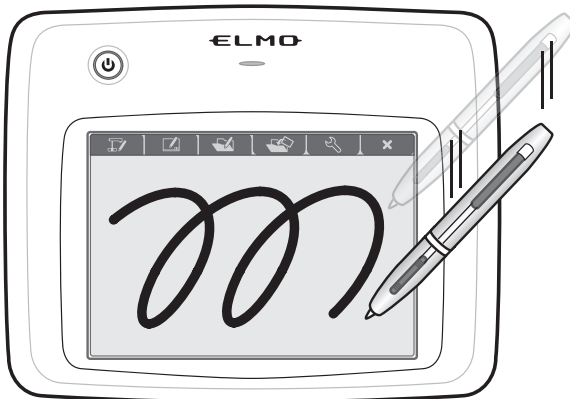
## Operating the tablet



- When the pen is tilted extremely to the tablet, the correct recognition may not be performed. It is recommended that the pen is used vertically as possible.
- If the pen is not used for a while, it enters power-saving mode. To reactivate and use the pen, tap the pen tip once.

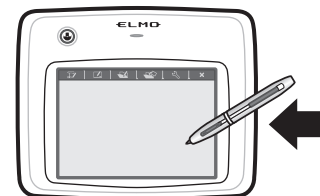
### ■ Moving the cursor

The operation area of the tablet and the screen of the computer are synchronized.



Computer screen

When you move the pen on the tablet's operating area, the cursor on your computer screen moves and the operation status is active.



The pen cannot be used if it is moved away from the tablet's operating area.



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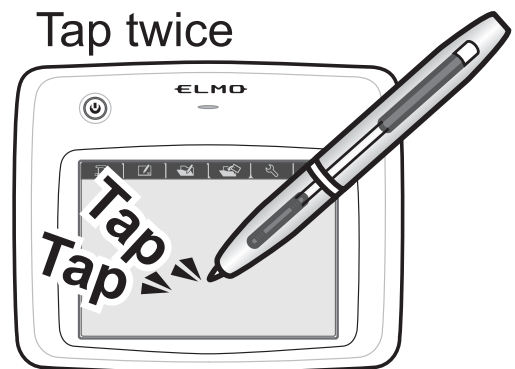
■ **Clicking (thick lines)**

Tap the pen once within the operating area.



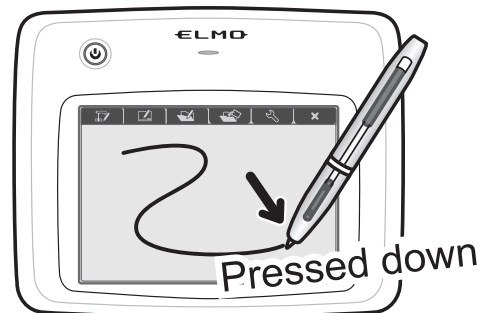
■ **Double-clicking**

Tap the pen twice within the operating area.



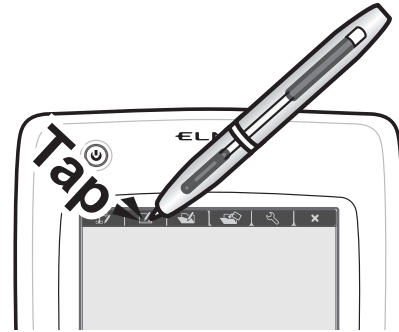
■ **Dragging**

Move the pen with the tip pressed against the tablet within the operating area.



## ■ Function keys

Activate an Image Mate Accent function by tapping the function key that you want.



The following function keys are available.



	Go to Document Camera mode.
	Go to whiteboard mode.
	Go to teaching material mode.
	Go to teaching material creation mode.
	Go to the setting mode screen.
	Quit Image Mate Accent.

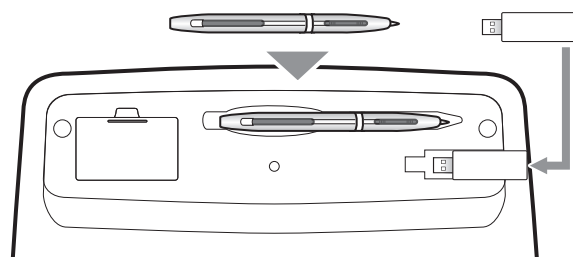
For more details on each function, see [<Mode descriptions>](#).

## ■ Storing the wireless adapter and pen

You can store the pen and wireless adapter in the tablet.

Store the wireless adapter with the wireless settings button on the tablet side.

The falling prevention lock is applied.




Tablet base



When storing the wireless adapter, make sure it is securely stored in the tablet, and be careful not to drop it while carrying it around.


# Using Image Mate Accent

## Starting Image Mate Accent

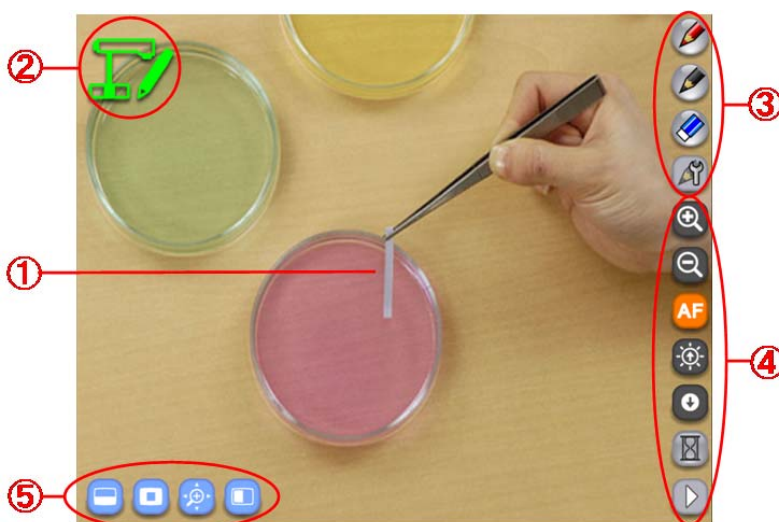
To start Image Mate Accent, select  on the computer.



Caution

- If you cannot find  select, and then start Image Mate Accent from start menu of Windows, and ELMO→Image Mate Accent.
- Do not change the resolution settings for the computer screen while Image Mate Accent is running.

## Screen configuration



①	Drawing area	This area is for displaying the Document Camera image and drawing. The entire monitor is the drawing area.
②	Status display area	The current operation is indicated with an icon.
③	Drawing menu area	You can select the pen to use for drawing, or delete all drawings.
④	Menu area	These buttons are for settings or operations.
⑤	Sub menu area	This menu is displayed or hidden depending on the mode.



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## Mode descriptions

When using Image Mate Accent, change the mode to suit your objective.

### ■ Document Camera mode



This mode is for using a Document Camera in a lesson.  
It displays the image of the Document Camera.

### ■ Whiteboard mode



This mode is for using the product as a whiteboard in a lesson.  
A pre-prepared background is displayed.

### ■ Teaching material mode



This mode is for using teaching materials in a lesson.  
The teaching materials are pictures, videos and teaching material data that are created with Image Mate Accent.  
The selected teaching material is displayed in this mode.

### ■ Teaching material creation mode



This mode is for creating teaching materials for use in a lesson.  
You can create teaching materials using resources such as Document Camera images, pictures, stamps and videos.

### ■ Setting mode



This mode is for setting Image Mate Accent operations.  
It can be used to display the version or status of connected devices, and to set Image Mate Accent operations such as "Pen settings", "Hide menus" and "Expert mode".

The modes can be changed with the function keys at the top of the tablet, or with the menu button in the "Expert" setting. Drawn lines are retained when the mode is changed.



- If you create an example video or prepare an accurate drawing before a lesson in teaching material creation mode, it will help make your class run smoothly.

---

## Drawing

- (1) Select the pen to use from  and  on the right of the screen.

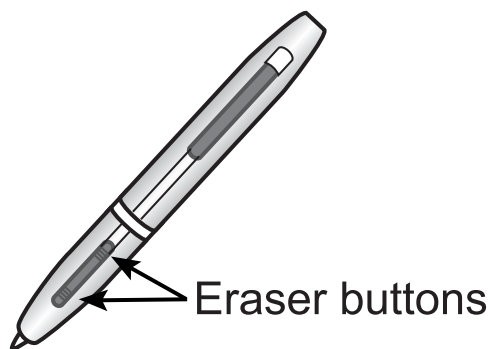


The button is different according to the setting.

- (2) Drag to draw.

## Deleting

- (1) If you only want to delete part of the drawings, align the cursor with the area that you want to delete and press side button 2, or drag while pressing side button 1.



You cannot delete a part of a continuous line.

- (2) To delete all the lines on a screen, press .

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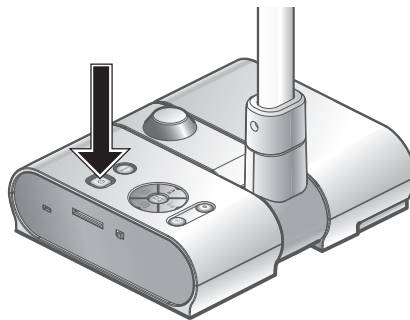
## Document Camera mode

You can use Image Mate Accent to display an image from a Document Camera and operate the camera, and draw on the displayed image.

When connecting the devices, refer to <Connections> if necessary.

### Displaying the Document Camera image

- (1) Turn on the Document Camera.



Caution

When the Document Camera is connected for the first time when OS is Windows XP, the driver may start to install. Follow the instructions on the screen to perform the installation.

- (2) Start Image Mate Accent.

When Image Mate Accent starts, the image from the Document Camera is displayed.

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## Operating the Document Camera

(1) Operate by pressing  ,  and   on the right of the screen.

### Using the mask

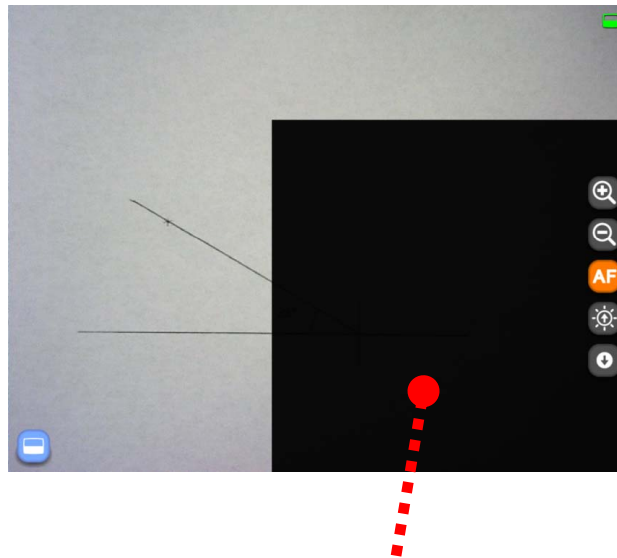
(1) Press  on the bottom left of the screen.

(2) The entire screen is masked. Drag the mask to move it.



In one operation, you can only move the range up or down or to the left or right. When the mask range touches the edge of the screen, the movement stops. You can drag the range again to move it.


(3) To cancel the mask, press  on the bottom left of the screen.



**Mask**

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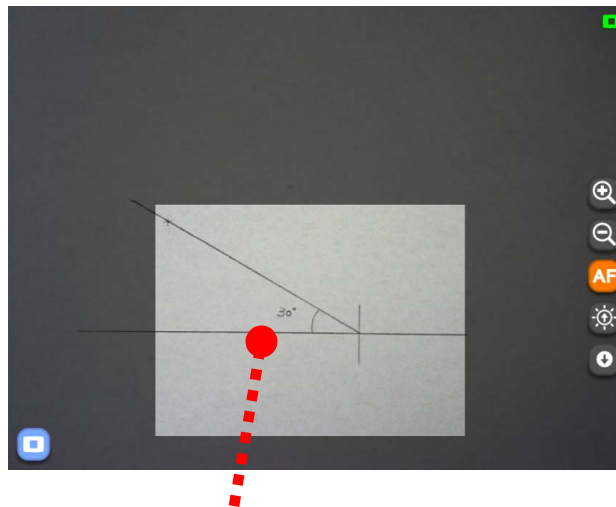
## Using the highlight

- (1) Press  on the bottom left of the screen.
- (2) The highlighted area is displayed on the screen. Drag the highlighted area to move it.





In expert mode, you can change the highlight range by dragging areas that are not highlighted.

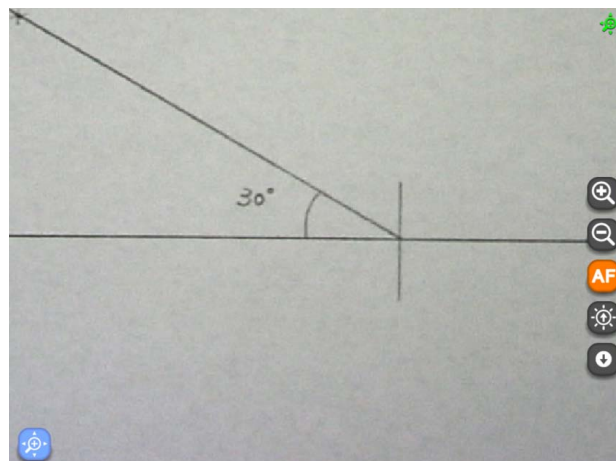
- (3) To cancel the highlight, press  on the bottom left of the screen.



## Using the scroll


### Highlight

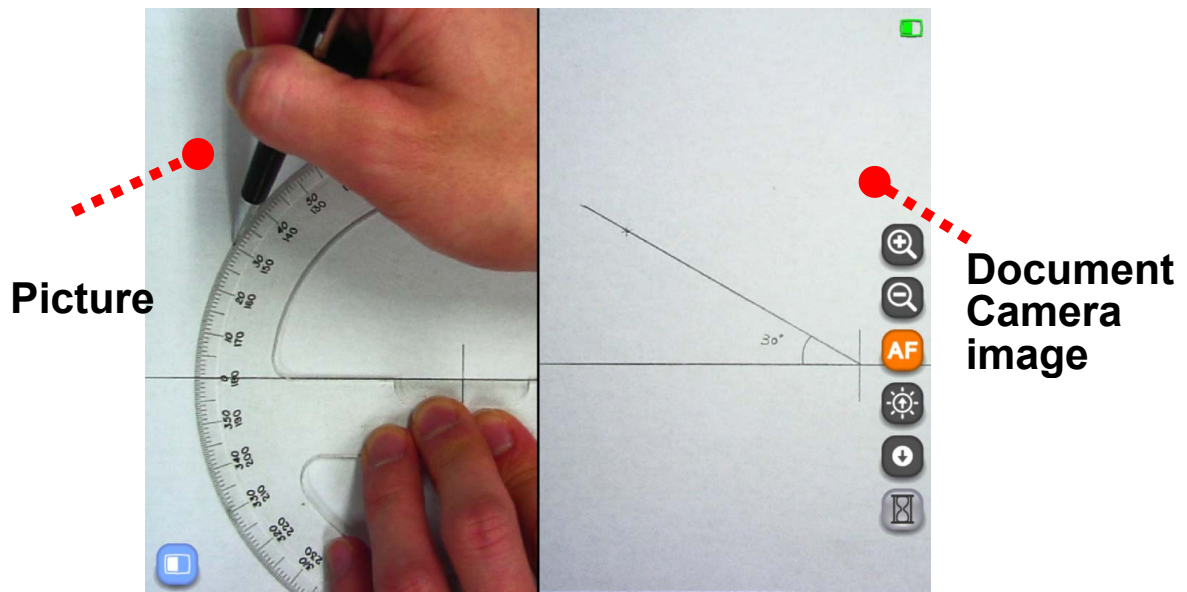
- (1) Press  on the bottom left of the screen.
- (2) An electronically magnified image is displayed on the screen. Drag the electronically magnified area to move it.
- (3) To cancel the scroll, press  on the bottom left of the screen.



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## Using compare pictures

- (1) Press  on the bottom left of the screen.
- (2) The screen is split, with the picture shot when the button is pressed displayed on the left, and the current Document Camera image displayed on the right. Drag the displayed area to move it.





- (3) To cancel compare pictures, press  on the bottom left of the screen.




## Setting the computer image as the background

- (1) Tap  on the right of the screen, and then press  to display the computer screen.



- (2) Press  to set the computer screen as the background, and press  to return Image Mate Accent to the previous condition.

## Saving the contents of a lesson on video



- (1) Display the image that you want to save on video.
- (2) Tap  on the right of the screen and select  to start recording on video, and select  to stop the recording.



Caution

- When the mode is changed to "Teaching material creation mode", the recording stops.
- To check the created video, refer to <Viewing pictures and videos>.
- For details of connections and settings for external input devices necessary for audio recording, please refer to the respective manuals.

## Saving the contents of a lesson as a picture





- (1) Display the image that you want to save as a picture.
- (2) Tap  on the right of the screen, and select  to save a picture.



















Caution





To check the created picture, refer to <Viewing pictures and videos>.

### ■ Menu buttons

 Pen 1	Selects pen 1. The initial setting is a red pen. You can change the settings for this pen in "Settings".
 Pen 2	Selects pen 2. The initial setting is a black pen. You can change the settings for this pen in "Settings".
 Delete all	Deletes all the lines that are drawn on the screen. If you only want to delete part of the drawings, align the cursor with the area that you want to delete and press side button 2, or tap while pressing side button 1.
 Pen settings	Displays the settings for pen 1 and pen 2. See <Changing the pen settings> for more details.

 Zoom +/-	<p>The zoom control function of the Document Camera.</p>
 AF	<p>The AF (Auto Focus) function of the Document Camera.</p>
 Brightness +/-	<p>The brightness control function of the Document Camera.</p>
 Operate PC	<p>Use to operate the computer.  On the computer screen, tap  to change to &lt;Whiteboard mode&gt; with the captured PC image as the background.  Tap  to display the previous condition.</p>
 Start/stop lesson recording	<p>Saves the currently displayed contents and the audio that is input to the computer as a video.  Elements such as the Document Camera image that is displayed on the background, the background image and the drawn lines are recorded, but elements such as the buttons and pointer are not recorded.  The saved videos can be played back in "  Teaching material mode".</p>
 Capture	<p>Saves the currently displayed contents as a picture.  Elements such as the Document Camera image that is displayed on the background, the background image and the drawn lines are recorded, but elements such as the buttons and pointer are not recorded.  The pictures can be displayed in "  Teaching material mode".</p>
 Settings	<p>You can perform settings for the pen or Image Mate Accent.</p>
 Quit	<p>Quit Image Mate Accent.</p>
 Next menu	<p>Displayed when the whole menu cannot be displayed on one screen. Use this button to go to the next menu.  When the final menu is displayed, tap this button to return to the first menu.</p>
 Undo	<p>Enables you to redo the last drawing edit that you performed (such as drawing with a pen or deleting with the eraser). There is upper limit in "Undo" operation.</p>
 Select	<p>You can select a line that you drew with a pen to move it or change its size.</p>
 Stamp	<p>You can insert stamps that you have pre-prepared.</p>








 Document Camera mode	Go to Document Camera mode.
 Whiteboard mode	Go to whiteboard mode.
 Teaching material mode	Go to teaching material mode.
 Teaching material creation mode	Go to teaching material creation mode.

The grayed items can be used in expert mode.

See <[Button list](#)> for more details.

■ Sub menu buttons

 Mask	<p>This function hides part or all of the Document Camera image that is displayed.</p> <p>You can move the mask range by dragging it.</p> <p>In one operation, you can only move the range up or down or to the left or right. When the mask range touches the edge of the screen, the movement stops. You can drag the range again to move it.</p>
 Highlight	<p>This function brings attention to a part of the Document Camera image.</p> <p>You can move the highlighted area by dragging it.</p> <p>In expert mode, you can change the highlight range by dragging areas that are not highlighted.</p>
 Scroll	<p>This function performs electronic magnification of the Document Camera image.</p> <p>Use it to magnify areas that are too small.</p> <div data-bbox="671 1536 1377 1644" style="border: 1px solid black; padding: 5px;">  This is different from the zoom function of the Document Camera. </div>
 Compare pictures	<p>This function displays together the picture that is shot when the button is pressed and the current image. The picture is displayed on the left of the screen and the current image is displayed on the right.</p> <p>Areas that are not displayed can be scrolled by dragging.</p> <p>Use it to compare a picture with an image.</p>

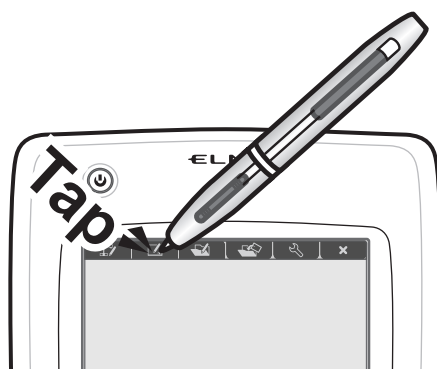
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## Whiteboard mode







With Image Mate Accent, in addition to displaying the Document Camera, you can select a pre-prepared background.

### Setting the whiteboard

- (1) Start Image Mate Accent.
- (2) When Image Mate Accent has started, tap the  function key on the tablet.



### Changing the background

- Select the background to use from  (vertical lines),  (horizontal lines),  (graph paper),  (musical score),  (Alphabet practice sheet) and  (whiteboard).



To set a picture that you have prepared yourself as the background, use teaching material mode or teaching material creation mode. See [<Changing the background>](#) for more details.

### Setting the computer image as the background

See [<Setting the computer image as the background>](#).

















### Saving the contents of a lesson on video













See [<Saving the contents of a lesson on video>](#).

### Saving the contents of a lesson as a picture

See [<Saving the contents of a lesson as a picture>](#).

■ Menu buttons

 Pen 1	<p>Selects pen 1. The initial setting is a red pen. You can change the settings for this pen in "Settings".</p>
 Pen 2	<p>Selects pen 2. The initial setting is a black pen. You can change the settings for this pen in "Settings".</p>
 Delete all	<p>Deletes all the lines that are drawn on the screen. If you only want to delete part of the drawings, align the cursor with the area that you want to delete and press side button 2, or tap while pressing side button 1.</p>
 Pen settings	<p>Displays the settings for pen 1 and pen 2. See &lt;Changing the pen settings&gt; for more details.</p>
 Vertical line background	<p>Sets vertical lines as the background.</p>
 Horizontal line background	<p>Sets horizontal lines as the background.</p>
 Graph paper background	<p>Sets graph paper as the background.</p>
 Musical score background	<p>Sets musical score as the background.</p>
 Alphabet practice sheet background	<p>Sets Alphabet practice sheet as the background.</p>
 Whiteboard background	<p>Sets a whiteboard as the background.</p>
 Operate PC	<p>Use to operate the computer. On the computer screen, tap  to change the captured PC image as the background. Tap  to display the previous condition.</p>
  Start/stop lesson recording	<p>Saves the currently displayed contents and the audio that is input to the computer as a video. Elements such as the Document Camera image that is displayed on the background, the background image and the drawn lines are recorded, but elements such as the buttons and pointer are not recorded. The saved videos can be played back in " Teaching material mode".</p>

 Capture	Saves the currently displayed contents as a picture. Elements such as the Document Camera image that is displayed on the background, the background image and the drawn lines are recorded, but elements such as the buttons and pointer are not recorded. The pictures can be displayed in "  Teaching material mode".
 Settings	You can perform settings for the pen or Image Mate Accent.
 Quit	Quit Image Mate Accent.
 Next menu	Displayed when the whole menu cannot be displayed on one screen. Use this button to go to the next menu. When the final menu is displayed, tap this button to return to the first menu.
 Undo	Enables you to redo the last drawing edit that you performed (such as drawing with a pen or deleting with the eraser). There is the upper limits up to 20 times in "Undo" operation.
 Select	You can select a line that you drew with a pen to move it or change its size.
 Stamp	You can insert stamps that you have pre-prepared.
 Document Camera mode	Go to Document Camera mode.
 Whiteboard mode	Go to whiteboard mode.
 Teaching material mode	Go to teaching material mode.
 Teaching material creation mode	Go to teaching material creation mode.

The grayed items can be used in expert mode.

See <[Button list](#)> for more details.

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## Teaching material mode

You can use Image Mate Accent to save lesson contents, examples or other materials onto a computer and play them back later.

When teaching material mode is entered, a screen for selecting the teaching material to view is displayed.




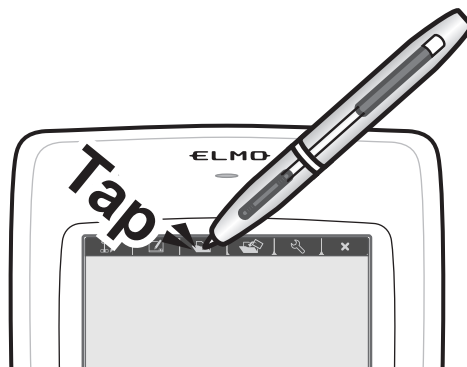
Caution

In teaching material mode, the menu differs depending on the teaching material that is retrieved.

## Viewing pictures and videos

You can use Image Mate Accent to view the videos and pictures that you saved in <Saving the contents of a lesson on video> and <Saving the contents of a lesson as a picture>.

- (1) Start Image Mate Accent.
- (2) When Image Mate Accent has started, tap the  function key on the tablet.









- (3) The teaching material selection screen is displayed. Select the picture or video that you want to view.




Pictures, videos and teaching materials created in teaching material creation mode can be selected in the teaching material selection screen.

It is displayed on the left when there is the last content of the edit.

The teaching materials are displayed from the latest update date, but favorite teaching materials are displayed first regardless of their update dates.






 Filter	Filters the teaching materials to be displayed.
 Page	When all teaching materials cannot be displayed on a single screen, they can be selected by changing the page.
Information	Displays the update date for the selected teaching material.
Type	Displays the type of the selected teaching material.
 Favorite	Sets the selected teaching material as a favorite. Favorite teaching materials are displayed first on the teaching material selection screen.
 Delete	Deletes the selected teaching material. Be very careful when deleting because the deleted teaching material cannot be restored. <div data-bbox="676 1563 1372 1733" style="border: 1px solid black; padding: 5px; margin-top: 10px;">  Caution             If a video or picture that is being used as the background of a teaching material is deleted, the teaching material will not be displayed correctly.           </div>
 Cancel	Cancels the teaching material selection and returns to the previous mode.

 Caution
 When a video is displayed, depending on the environment or condition of your computer, the video may play back slowly or the reaction time for operations may be slow. It may help if you close other applications.

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## Operating a video

- (1) In the teaching material selection screen, select a video or a teaching material that contains a video.
- (2) Operate the video with the buttons displayed below.

 Playback speed	Changes the playback speed of the video. The playback speed changes each time you tap the button.
 Play/pause	Pauses or starts the video playback.
 Sequence bar	Changes the playback position of the video.
 Volume	Adjusts the volume of videos that have audio. <div style="border: 1px solid black; padding: 5px;"> Caution<ul style="list-style-type: none"><li>- Only displayed if your computer has a sound device.</li><li>- This operation is only available when the playback speed is in the normal setting.</li></ul></div>

## Setting the computer image as the background

See <[Setting the computer image as the background](#)>.

## Saving the contents of a lesson on video

See <[Saving the contents of a lesson on video](#)>.

## Saving the contents of a lesson as a picture

See <[Saving the contents of a lesson as a picture](#)>.

## Using the mask

See <[Using the mask](#)>.

## Using the highlight

See <[Using the highlight](#)>.















## Using the scroll

See <[Using the scroll](#)>.








## Using compare pictures

See <[Using compare pictures](#)>.

## ■ Menu buttons

 Pen 1	<p>Selects pen 1.</p> <p>The initial setting is a red pen. You can change the settings for this pen in "Settings".</p>
 Pen 2	<p>Selects pen 2.</p> <p>The initial setting is a black pen. You can change the settings for this pen in "Settings".</p>
 Delete all	<p>Deletes all the lines that are drawn on the screen.</p> <p>If you only want to delete part of the drawings, align the cursor with the area that you want to delete and press side button 2, or tap while pressing side button 1.</p>
 Pen settings	<p>Displays the settings for pen 1 and pen 2.</p> <p>See &lt;Changing the pen settings&gt; for more details.</p>
 Operate PC	<p>Use to operate the computer.</p> <p>On the computer screen, tap  to change to &lt;Whiteboard mode&gt; with the captured PC image as the background.</p> <p>Tap  to display the previous condition.</p>
 Start/stop lesson recording	<p>Saves the currently displayed contents and the audio that is input to the computer as a video.</p> <p>Elements such as the Document Camera image that is displayed on the background, the background image and the drawn lines are recorded, but elements such as the buttons and pointer are not recorded.</p> <p>The saved videos can be played back in " Teaching material mode".</p>
 Capture	<p>Saves the currently displayed contents as a picture.</p> <p>Elements such as the Document Camera image that is displayed on the background, the background image and the drawn lines are recorded, but elements such as the buttons and pointer are not recorded.</p> <p>The pictures can be displayed in " Teaching material mode".</p>
 Settings	<p>You can perform settings for the pen or Image Mate Accent.</p>
 Quit	<p>Quit Image Mate Accent.</p>
 Next menu	<p>Displayed when the whole menu cannot be displayed on one screen. Use this button to go to the next menu.</p> <p>When the final menu is displayed, tap this button to return to the first menu.</p>








 Undo	Enables you to redo the last drawing edit that you performed (such as drawing with a pen or deleting with the eraser). There is upper limit in “Undo” operation.
 Select	You can select a line that you drew with a pen to move it or change its size.
 Stamp	You can insert stamps that you have pre-prepared.
 Document Camera mode	Go to Document Camera mode.
 Whiteboard mode	Go to whiteboard mode.
 Teaching material mode	Go to teaching material mode.
 Teaching material creation mode	Go to teaching material creation mode.

The grayed items can be used in expert mode.

See <[Button list](#)> for more details.

■ Sub menu buttons

 Mask	<p>This function hides part or all of the Document Camera image that is displayed.</p> <p>You can move the mask range by dragging it.</p> <p>In one operation, you can only move the range up or down or to the left or right. When the mask range touches the edge of the screen, the movement stops. You can drag the range again to move it.</p>
 Highlight	<p>This function brings attention to a part of the Document Camera image.</p> <p>You can move the highlighted area by dragging it.</p> <p>In expert mode, you can change the highlight range by dragging areas that are not highlighted.</p>
 Scroll	<p>This function performs electronic magnification of the Document Camera image.</p> <p>Use it to magnify areas that are too small.</p> <div data-bbox="671 936 1377 1043" style="border: 1px solid black; padding: 5px;">  This is different from the zoom function of the Document Camera.         </div>
 Compare pictures	<p>This function displays together the picture that is shot when the button is pressed and the current image. The picture is displayed on the left of the screen and the current image is displayed on the right.</p> <p>Areas that are not displayed can be scrolled by dragging.</p> <p>Use it to compare a picture with an image.</p>


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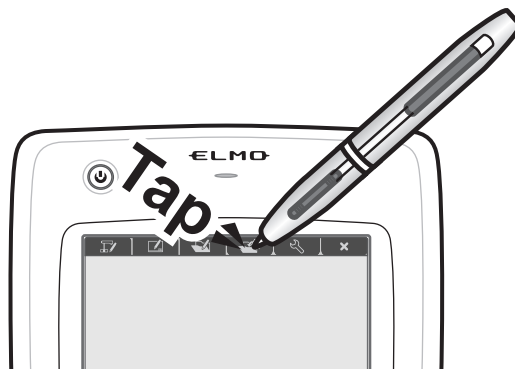
## Teaching material creation mode

You can use Image Mate Accent to prepare teaching materials in advance for use in a lesson.




Be careful, because if you create a new teaching material, open a teaching material, or change the mode, a teaching material that has not been saved will be lost.


- (1) Start Image Mate Accent.
- (2) When Image Mate Accent has started, tap the  function key on the tablet.



### Creating a new teaching material

- (1) Press .
- (2) The teaching material currently being created is erased and a new teaching material is created.

### Opening a teaching material

- (1) Press .
- (2) The teaching material selection screen is displayed. Select the picture or video that you want to view.



Pictures, videos and teaching materials created in teaching material creation mode can be selected in the teaching material selection screen.

The teaching materials are displayed from the latest update date, but favorite teaching materials are displayed first regardless of their update dates.

	<p>Page</p> <p>When all teaching materials cannot be displayed on a single screen, they can be selected by changing the page.</p>
<p>Information</p>	<p>Displays the update date for the selected teaching material.</p>
<p>Type</p>	<p>Displays the type of the selected teaching material.</p>
<p>Favorite</p>	<p>Sets the selected teaching material as a favorite. Favorite teaching materials are displayed first on the teaching material selection screen.</p>
<p>Delete</p>	<p>Deletes the selected teaching material. Be very careful when deleting because the deleted teaching material cannot be restored.</p> <div data-bbox="676 1532 1374 1704" style="border: 1px solid black; padding: 5px;"> <p>Caution</p> <p>If a video or picture that is being used as the background of a teaching material is deleted, the teaching material will not be displayed correctly.</p> </div>
<p>Cancel</p>	<p>Cancels the teaching material selection and returns to the previous mode.</p>


<p>Caution</p>	<p>When a video is displayed, depending on the environment or condition of your computer, the video may play back slowly or the reaction time for operations may be slow. It may help if you close other applications.</p>
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## Saving a teaching material

(1) Press .

(2) Save the teaching material that is currently being edited.

 Caution	When a teaching material is opened and edited, a save operation overwrites the previously saved data. This means that the previous data is lost.
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## Operating the Document Camera

(1) Press  on the right of the screen to display the Document Camera remote control. (Not displayed if the Document Camera is not connected.)

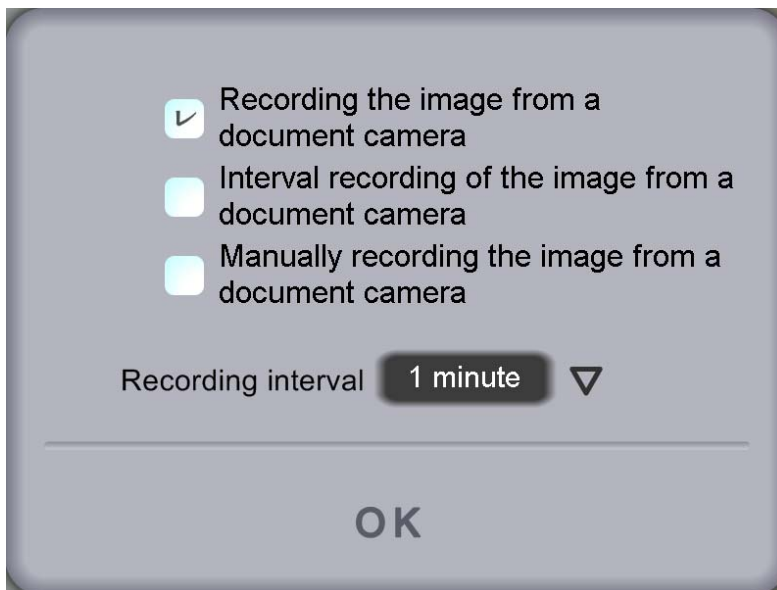


(2) Perform operations by pressing  ,  and  .

## Creating a Document Camera video

(1) Press  on the right of the screen to display the Document Camera remote control. (Not displayed if the Document Camera is not connected.)

(2) Press  and perform the record settings.



The following types of recording are available for creating a Document Camera video. The details of the recording differ depending on the mode or application, so select a type that is suitable for your objective.

Name	Description
Normal recording	Saves the image of the Document Camera in a video. Elements such as drawn lines, buttons, pointers and audio are not saved.
Intermittent recording	Saves the image of the Document Camera at the interval set in "Intermittent recording time". This is suitable for saving a subject that changes over a long period of time.
Frame recording	Records the image of the Document Camera each time the frame recording button is tapped. If you change the subject while saving, you can make a video that is similar to animation.



Unlike the other modes, when recording in the teaching material creation mode, only the image of the Document Camera is saved in the video.

(3) Press  to start recording.

In frame recording, recording is performed each time  is tapped.


(4) To finish the recording, press  .

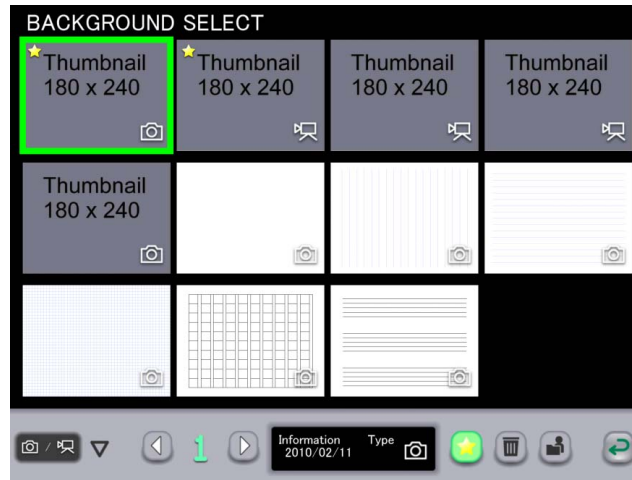


When the mode is changed to the "Document camera mode", "Whiteboard mode" and "Teaching material creation mode", the recording stops.

## Changing the background






When creating teaching materials, you can select a background from the pictures and videos created with Image Mate Accent.




- (1) Press , and select the picture or video to use as the background in the **BACKGROUND SELECT** screen.




Pictures, videos and teaching materials created in teaching material creation mode can be selected in the teaching material selection screen.

The teaching materials are displayed from the latest update date, but favorite teaching materials are displayed first regardless of their update dates.

 Filter	Filters the teaching materials to be displayed.
 Page	When all teaching materials cannot be displayed on a single screen, they can be selected by changing the page.
Information	Displays the update date for the selected teaching material.
Type	Displays the type of the selected teaching material.
 Favorite	Sets the selected teaching material as a favorite. Favorite teaching materials are displayed first on the teaching material selection screen.
 Delete	Deletes the selected teaching material. Be very careful when deleting because the deleted teaching material cannot be restored. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  Caution              If a video or picture that is being used as the background of a teaching material is deleted, the teaching material will not be displayed correctly.           </div>


 Select file	<p>Select a picture that is saved on the computer.</p> <div data-bbox="676 264 1374 398" style="border: 1px solid black; padding: 5px;">  Caution  Depending on the picture type, it may not be possible to use some of the pictures that are saved on your computer. </div>
 Cancel	Cancels the teaching material selection and returns to the previous mode.


**(2) The selected picture is displayed as the background.**

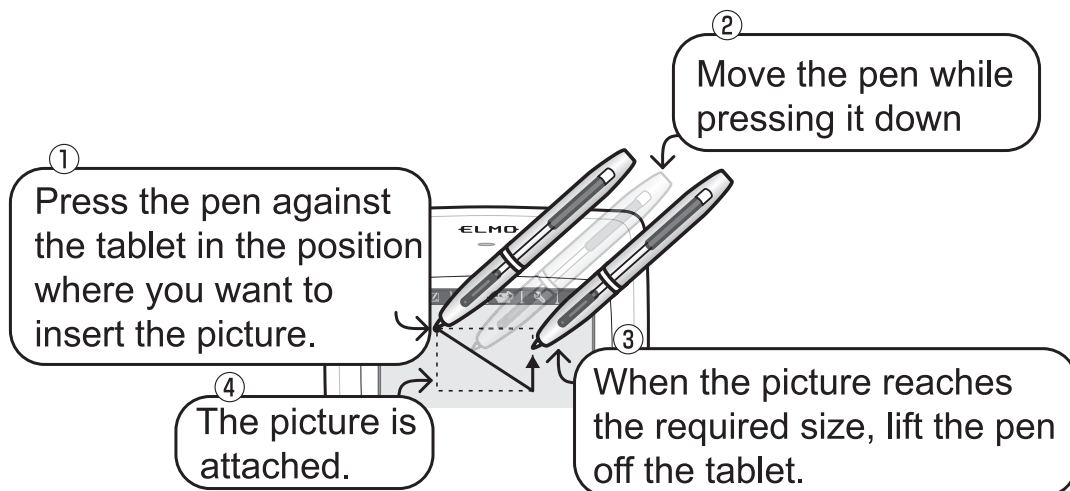
 Caution  
When a video is displayed, depending on the environment or condition of your computer, the video may play back slowly or the reaction time for operations may be slow.  
It may help if you close other applications.

### Inserting pictures

When creating teaching materials, you can insert pictures that are saved on your computer.

- (1) Press  on the right of the screen.**
- (2) Select a picture that is saved on the computer.**
- (3) Drag and drop on the screen to insert the selected picture.**

 Caution  
Depending on the picture type, it may not be possible to use some of the pictures that are saved on your computer.




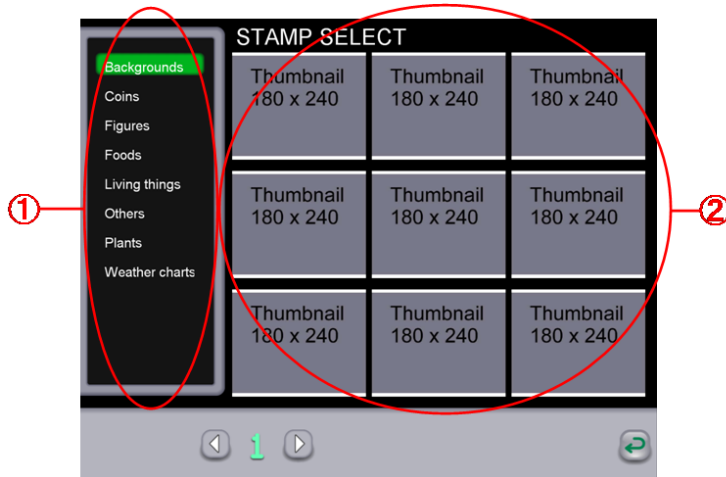




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## Using stamps

When creating teaching materials, you can insert stamps that you have pre-prepared.

- (1) Press  on the right of the screen.
- (2) In the **STAMP SELECT** screen, select a stamp to use.



① Group list	The list of the group where the stamp is preserved is displayed.
② Stamp list	The list of the stamp in the group is displayed.
 Page	When all teaching materials cannot be displayed on a single screen, they can be selected by changing the page.
 Cancel	Cancel the teaching material selection and returns to the previous mode.

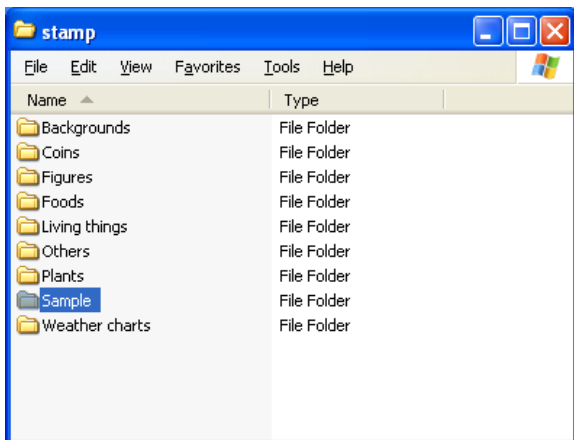
- (3) Click on the screen to insert the selected stamp.

## Adding stamps

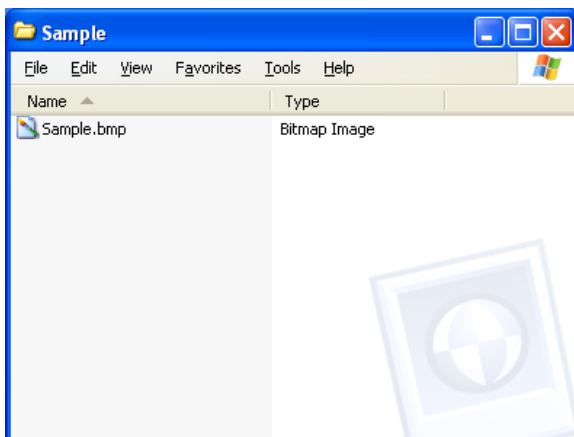
You can add new stamps to be used to create teaching materials with the following steps.

- (1) Open folders in order of Start menu→My Computer→Drive(C:) where Image Mate Accent is installed→ Program Files→ELMO→Image Mate Accent→stamp.

- (2) When new group is added, a new folder with the new named is created. The addition of the group will take effect after restarting the Image Mate Accent.



- (3) Image data of the stamp (jpg/bmp/png) will be added by putting it to the folder of group to be added.

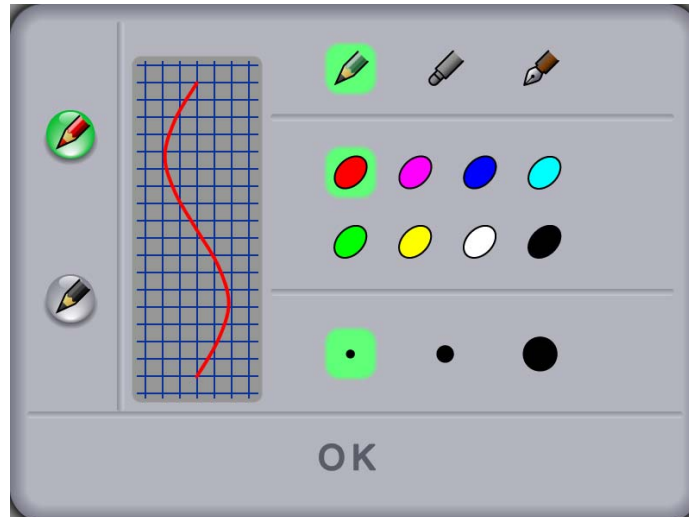


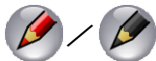



The stamps with the format “jpg · bmp · png” can be added.  
(Some data cannot be displayed.)



## Changing the pen settings

(1) Press  on the right of the screen to display the pen settings screen.

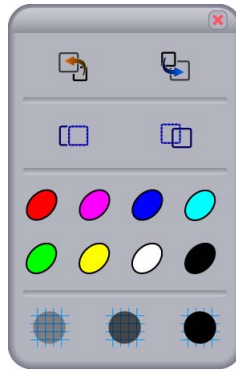


 Pen 1/pen 2	Select the pen that you want to set.						
 Pencil/marker/fountain pen	Select the type for the selected pen. <table border="1" data-bbox="659 1108 1369 1411"> <tr> <td>Pencil</td> <td>Draws lines with the set thickness regardless of the pen pressure.</td> </tr> <tr> <td>Marker</td> <td>Draws lines with the set thickness regardless of the pen pressure. The displayed color is translucent.</td> </tr> <tr> <td>Fountain pen</td> <td>Changes the thickness according to the pen pressure.</td> </tr> </table>	Pencil	Draws lines with the set thickness regardless of the pen pressure.	Marker	Draws lines with the set thickness regardless of the pen pressure. The displayed color is translucent.	Fountain pen	Changes the thickness according to the pen pressure.
Pencil	Draws lines with the set thickness regardless of the pen pressure.						
Marker	Draws lines with the set thickness regardless of the pen pressure. The displayed color is translucent.						
Fountain pen	Changes the thickness according to the pen pressure.						
 Color button	Set the color for the selected pen.						
 Thickness	Select the thickness for the selected pen.						





(2) Select the pen type, color and pen thickness for pen 1 or pen 2, and then tap OK.

## Changing a line or picture




(1) Press  on the right of the screen to display the edit drawing screen.

























In the edit drawing screen, you can change the selected line, picture or text.

 Bring to front/send to back	Moves the position of the selected line or picture to the front or back of other lines or pictures. This changes the positions of overlapping lines or pictures.
 Copy/paste	Copies or pastes the selected line or picture. Use to duplicate the same line or picture.
 Change color	Changes the color of the selected line or text.
 Change transparency	Changes the transparency of the selected line.





### ■ Menu buttons

 Pen 1	Selects pen 1. The initial setting is a red pen. You can change the settings for this pen in "Settings".
 Pen 2	Selects pen 2. The initial setting is a black pen. You can change the settings for this pen in "Settings".
 Delete all	Deletes all the lines that are drawn on the screen. If you only want to delete part of the drawings, align the cursor with the area that you want to delete and press side button 2, or tap while pressing side button 1.

 Pen settings	<p>Displays the settings for pen 1 and pen 2. See &lt;Changing the pen settings&gt; for more details.</p>
 Document Camera background	<p>Set the background of teaching material creation mode as the Document Camera image. In teaching material creation mode, perform Document Camera operations with the "Document Camera remote control".</p>
 Change background	<p>Select a background from vertical lines, horizontal lines, graph paper, copy paper, musical score, Alphabet practice sheet, whiteboard, previously recorded videos, previously shot pictures, and pictures that are saved on the computer.</p>
 Insert picture	<p>Insert a picture that is saved on the computer.</p>
 Stamp	<p>Insert a stamp that you have pre-prepared.</p>
 Enter text	<p>Enter text with a keyboard.</p>
 Select	<p>You can select a line, stamp or inserted picture to move it or change its size.</p>
 Operate PC	<p>Use to operate the computer. On the computer screen, tap  to change the captured PC image as the background. Tap  to display the previous condition.</p>
 Capture	<p>Saves the currently displayed contents as a picture. Elements such as the Document Camera image that is displayed on the background, the background image and the drawn lines are recorded, but elements such as the buttons and pointer are not recorded. The pictures can be displayed in " Teaching material mode".</p>
 Pen settings	<p>Perform pen settings.</p>
 Edit drawing	<p>You can edit lines, stamps or inserted pictures, for example by moving them, changing their size, or copying and pasting them.</p>
 Undo	<p>Enables you to redo the last drawing edit that you performed (such as drawing with a pen or deleting with the eraser). There is upper limit in "Undo" operation.</p>
 Document Camera mode	<p>Go to Document Camera mode.</p>


 Whiteboard mode	Go to whiteboard mode.
 Teaching material mode	Go to teaching material mode.
 Teaching material creation mode	Go to teaching material creation mode.
 Settings	You can perform settings for the pen or Image Mate Accent.
 Quit	Quit Image Mate Accent.
 Next menu	Displayed when the whole menu cannot be displayed on one screen. Use this button to go to the next menu. When the final menu is displayed, tap this button to return to the first menu.

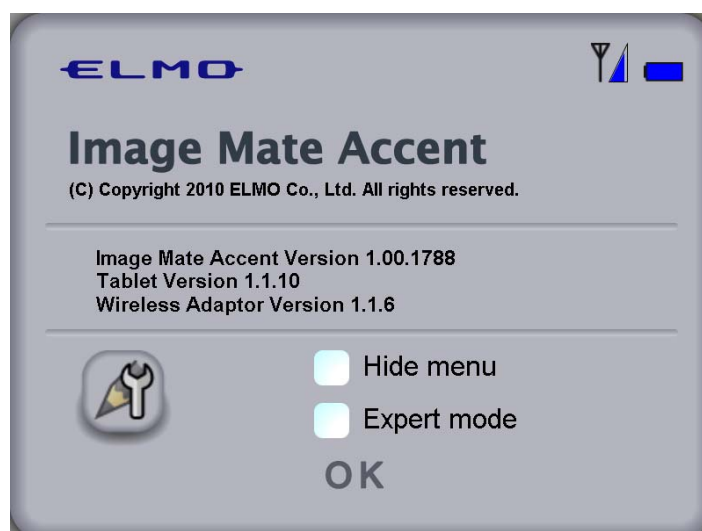
■ Sub menu buttons




 Create new	Create a new teaching material.
 Open	Edit existing teaching material creation data. When this button is pressed, the teaching material selection screen is displayed. Select the data to edit.
 Save	Save the teaching material creation data that is currently being edited.  <div style="border: 1px solid black; padding: 5px; display: inline-block;">  Depending on the picture type, it may not be possible to use some of the pictures that are saved on your computer. </div>

## Setting mode

This mode is for setting Image Mate Accent operations.

- (1) Start Image Mate Accent.
- (2) When Image Mate Accent has started, tap the  function key on the tablet.



Display version	Displays the version of Image Mate Accent, the version of the tablet, and the version of the wireless adapter.
 Electric wave strength	Displays the electric wave strength of the tablet and wireless adapter. When the electric wave strength is low, correct operation may not be possible.
 Battery level	Displays the level of the lithium-ion battery. When the level of the lithium-ion battery is low, charge it.
 Pen settings	Displays the settings for pen 1 and pen 2. See < <a href="#">Changing the pen settings</a> > for more details.
Hide menus	Hides the menus and sub menus that are normally displayed. Select when you want to use a larger area on the screen.
Expert mode	Increases the number of items displayed in the menus. See < <a href="#">Button list</a> > for more details.



## Button list

The displayed buttons vary depending on the mode.

Also, when "Expert" is set, a menu is displayed that is not normally displayed.

### ■ Expert setting

When expert is selected with the "Expert" setting in "Settings", the operations change as described below.

- The number of menu items displayed in each mode increases.
- The highlight range of the highlight function can be changed.

Mastering these functions will enable more flexible operations.

### ■ Button list

○ · · · Can always be used.


— · · · Cannot be used.

× · · · Cannot be used in the expert setting, Document camera status and Document camera Setting.

Button name	Document Camera mode	Whiteboard mode	Teaching material mode	Teaching material creation mode
Pen 1	○	○	○	○
Pen 2	○	○	○	○
Delete all	○	○	○	○
Pen settings	○	○	○	○
Zoom +/-	○	—	—	×
AF	○	—	—	×
Brightness +/-	○	—	—	×
Start/stop lesson recording	○	○	○	—
Capture	○	○	○	○
Vertical lines, horizontal lines, graph paper, musical score, Alphabet practice sheet, whiteboard background	—	○	—	—
Settings	○	○	○	○
Quit	○	○	○	○
Next menu	○	○	×	○
Operate PC	○	○	○	○
Document Camera background	—	—	—	○

Change background	—	—	—	○
Insert picture	—	—	—	○
Stamp	×	×	×	○
Undo	×	×	×	○
Select	×	×	×	○
Stop/restart screen	×	—	—	×
Enter text	—	—	—	○
Pen settings	—	—	—	○
Edit drawing	—	—	—	○
Document Camera mode	×	×	×	○
Whiteboard mode	×	×	×	○
Teaching material mode	×	×	×	○
Teaching material creation mode	×	×	×	○
Mask	○	—	○	—
Highlight	○	—	○	—
Scroll	○	—	○	—
Compare pictures	○	—	○	—
Playback speed	—	—	×	×
Play/pause	—	—	×	×
Change volume	—	—	×	×
Create new	—	—	—	○
Open	—	—	—	○
Save	—	—	—	○

## Troubleshooting


Tablet power does not turn ON	
Is the lithium-ion battery installed?	Check that the lithium-ion battery is inserted correctly.
Is the lithium-ion battery charged?	Refer to <Charging the tablet> and then charge the lithium-ion battery.
Cannot use the tablet / The cursor does not move	
Is the wireless adapter connected to the computer?	<p>Check that the wireless adapter is connected to the computer being used.</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;">  <p>Caution</p> <p>Connect the wireless adapter directly to the USB port on the computer. It may not operate correctly if a USB hub is used.</p> </div>
Is the Status LED on the tablet or the LED on the wireless adapter flashing?	No communication between the tablet and wireless adapter. See <If tablet communication cannot be performed>.
Communication is not possible.	<p>If wireless devices or electronic equipment are used near the product, communication between the tablet and wireless adapter may be unstable due to interference from radio waves.</p> <p>Do not use equipment that causes interference when using this product.</p>
Is the pen's dry cell battery flat?	Replace with a new dry cell battery.
Is the tablet driver operating correctly?	<p>The software's installation may not have been completed correctly.</p> <p>Refer to &lt;Software installation and uninstallation&gt; and uninstall and then reinstall the software.</p>
Are the tablet driver's settings suitable?	<p>The tablet may not respond if the pressure sensitivity is too low or the touch sensitivity is too high.</p> <p>Perform the appropriate settings.</p>

<b>Communication between the tablet and wireless adapter is unstable</b>	
Is third-party tablet software installed?	If third-party tablet software is operating, it may conflict with the operations of this product. Do not operate third-party tablet software while using this product.
Are the tablet and wireless adapter in the proper condition?	Communication may become unstable because of an obstruction between the tablet and wireless adapter, due to the inherent characteristics of wireless communication, or because of the installation angles of the units. Remove the obstruction or change the installation location.
Is a wireless device or electronic equipment being used nearby?	Wireless devices or electronic equipment may interfere with the communication between the tablet and wireless adapter. Refer to <If tablet communication cannot be performed> and then perform the wireless settings. If this does not improve the condition, stop using the wireless device or electronic equipment, or move to a location with no interference.

<b>Document Camera is not displayed correctly with Image Mate Accent</b>	
Are the output video settings of the Document Camera suitable?	When using Image Mate Accent, perform the video selection for the Document Camera with [PC] (RGB IN).
Is the resolution of view of the Document Camera suitable?	Image Mate Accent maintains the fineness ratio of the resolution of the Document camera image. An appropriate display can be done by matching the fineness ratio of the personal computer screen resolution to the fineness ratio of the resolution of the Document camera image. Please refer to the manual of the Document camera used for the setting of the paintings and writings camera.

<b>A teaching material is not displayed correctly with Image Mate Accent</b>	
Have you deleted the video or picture that was being used as the background?	If a teaching material is displayed that used a video or picture that has since been deleted, the background cannot be displayed. Be very careful before deleting videos or pictures.

<b>Cannot find captured image files or teaching materials created by the Image Mate Accent.</b>	
See the right column	My Document→My Pictures→Image Mate Accent→rec.

<b>Cannot play the audio of a teaching material with Image Mate Accent</b>	
Is the video a lesson recording?	The video types are lesson recording, normal recording, intermittent recording and frame recording. Of these, audio is recorded only with lesson recording. Audio is not recorded with the other video types.
Are the audio settings suitable?	If the input volume was low during video recording or the playback volume is low, it may be difficult to hear the audio. Set the volume to a suitable level.
Is the sound device of the computer set to a suitable level?	Audio recording and audio playback is not possible in a computer environment in which a sound device is not installed. <div style="border: 1px solid black; padding: 5px; display: inline-block;">  <span style="margin-left: 10px;">Operation is not guaranteed for all computer environments.</span> </div>

## Product Specifications

Model Name	CRA-1
Operating Temperature	0 to 40°C
Reading Range	8.0 x 5.0 inches (203.2 x 127.0 mm)
Reading Resolution	0.0127 mm
Reading Accuracy	0.42 mm
Reading Speed	120 rps
Pen Pressure Level	1024 Level
Wireless Band Used	2.4 GHz
Communication Range	Approx. 15 m (differs depending on the usage conditions)
Power Supply	Lithium-ion battery
Continuous Operation Time	Approx. 16 hours (differs depending on the usage conditions)
Auto Power Off Time	Approx. 30 minute
Full Charging Time	Approx. 4 hours
Consumption Current	When using USB 5 V 500 mA When using lithium-ion battery 3.7 V 60 mA
Computer Model	IBM compatible computer equipped with a standard USB port and CD-ROM drive. (Operation is not guaranteed for all computer environments.)
Compatible OS	Windows 7 / Vista SP1 / XP SP2
External Dimensions	W315 x D257 x H23 (mm)
Weight	670 g ( including Tablet, Pen, Wirelessadapter, Dry cell AAA battery, and Lithium-ion battery for tablet )

## About Trademarks

**ELMO** , Image Mate are a registered trademark of ELMO Co., Ltd.

**Teacher's Choice** is trademarks of ELMO Co., Ltd.

The full title for Windows® XP is the Microsoft® Windows® XP operating system.

The shortened form of the OS name is used in the text.

The full title for Windows® VISTA is the Microsoft® Windows® VISTA operating system.

The shortened form of the OS name is used in the text.

The full title for Windows® 7 is the Microsoft® Windows® 7 operating system.

The shortened form of the OS name is used in the text.

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## About the Warranty

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### ■ About the warranty certificate

Your dealer will give you the warranty certificate.

Be sure to check the details on the certificate, such as the dealer name and date of purchase.

Read the contents of the warranty carefully and store it in a safe place.

<b>Warranty period: 1 year from purchase</b>
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### ■ To order a repair during the warranty period, contact the dealer where you purchased the product.

The dealer will perform the repair in accordance with the conditions in the warranty certificate.

### ■ About maintenance parts

ELMO will stock maintenance parts for this product

(the parts required for maintaining the function of the product) for 8 years after the end of production. Repair will be possible until the end of this parts storage period.


### ■ Please provide the following information when ordering repair.

- Your name, address and telephone number
- Product name and model name
- Date of purchase (refer to your warranty certificate)
- Malfunction description
- Status of the abnormality (as much detail as possible)

### ■ To order a repair after the warranty period has elapsed, consult the dealer where you purchased the product.

If a repair that will maintain the product's function is possible, we can perform it for a fee.

### ■ If you have any questions about after-sales service, such as repairs during the warranty period, contact the dealer where you purchased the product.

Loving inspection		● Please have your devices inspected after using them for a long time!	Products can deteriorate or break down due to the effects of heat, humidity or dust, or their usage conditions. Sometimes this may impair safety, resulting in an accident.

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# ELMO CO. , LTD.

6-14, Meizen-cho, Mizuho-ku  
Nagoya, 467-8567, Japan

## OVERSEAS SUBSIDIARY COMPANIES

### ELMO USA CORP.

Headquarters

1478 Old Country Road  
Plainview, NY 11803-5034, U. S. A.  
Tel. (516) 501-1400 Fax. (516) 501-0429  
E-mail: elmo@elmousa.com  
Web: <http://www.elmousa.com>

### West Coast Branch

Cypress Pointe Business Park  
5676 Corporate Avenue  
Cypress, CA 90630, U. S. A.  
Tel. (714) 828-8457 Fax. (714) 828-8429

### ELMO Europe SAS

7C Place du Dôme,  
Immeuble Elysées la Défense,  
92056 Paris la Défense, France  
Tel. 33 1 73 02 67 06 Fax. 33 1 72 75 67 10

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