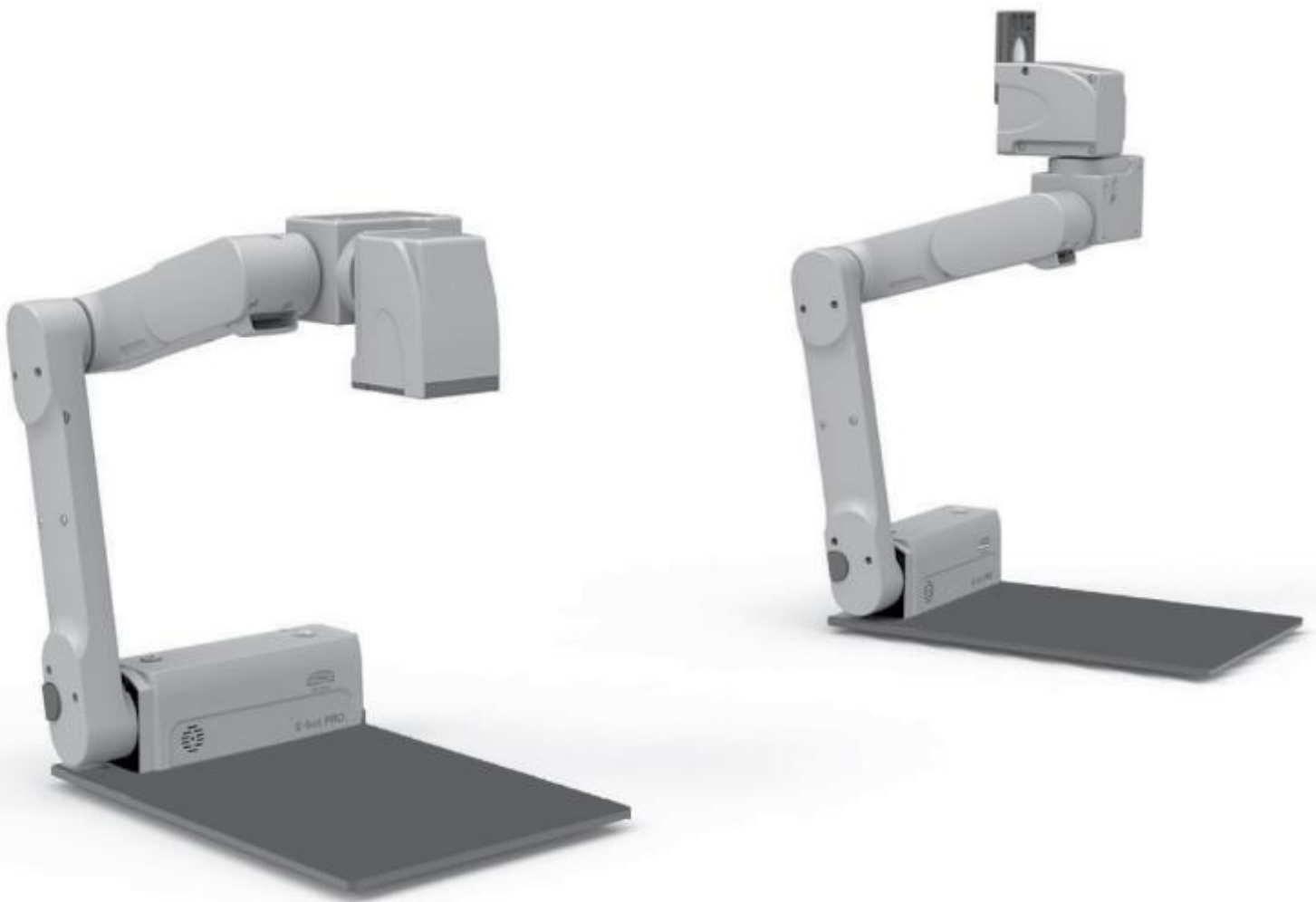


User Manual

Electronic Reading Magnifier

E-bot PRO



E-bot PRO offers a variety of powerful features for low vision students and users of all ages including the following:

1) Easy To Use

- Easily set up and transport from classroom to classroom, work to home, etc. ► page 13 ~ 17
- Easily and intuitively control camera movement with just a light touch of the Joystick on the Wireless Controller. ► page 37 ~ 40

2) HD Quality

- Sharp HD image quality ensures a crystal clear view of the material and reduces eye fatigue.

3) Flexible viewing

- Adjust color, contrast and magnification levels for best viewing for your visual condition ►page 42 ~47

4) Near view and Distance view

- View images on the included reading table in front of you or on a whiteboard at a distance. ► page 40 ~42

5) Connectivity to a variety of devices

- Connectivity to DVI/HDMI Monitor ►page 20 ~21
- Connectivity to PC or Mac ►page 21 ~31
- Connectivity to iPad or Android Tablet ►page 31 ~33

6) Flexible, Versatile Control

- Manipulate image viewing in a variety of ways including using the Wireless Controller, the keyboard and mouse of your computer, or the touch screen of your iPad or Android tablet
 - page 37 ~50 for the Wireless Controller
 - page 87 ~91 for the iPad or Android tablet
 - page 92 ~95 for the PC or Mac

7) OCR

- Capture images and use OCR to recognize the text, and read it using the built-in Text-To-Speech voices. ►page 58 ~66
- Save OCR images and results to an SD card for later viewing ►page 49

Safety Precautions

For your safety and protection of the E-bot PRO, please read and abide by the following important safety precautions.

- 1) Do not plug the AC adapter into a faulty electrical outlet. This is to prevent electrical shock or fire.
- 2) Do not touch the AC adapter with wet hands.
- 3) Use only the AC adapter provided with the E-bot PRO. Using another AC adapter may damage the device. Be advised that damage caused by misuse is not covered by the warranty.
- 4) Do not attempt to disassemble or repair the E-bot PRO yourself. Serious damage may occur to the device and the warranty will be voided.
- 5) Do not use the E-bot PRO in a moisture-rich environment such as a bathroom, shower or a wet kitchen counter as moisture may get inside the unit and damage the components.
- 6) Do not use E-bot PRO in extreme high or low temperatures. We recommend that you do not use this device in environments below 0° C or above 40° C, as the image may display inaccurately.
- 7) Always turn off the power before moving the product to another location.
- 8) Please do not simply drop the arm of E-bot PRO or do not lean on or against the arm of E-bot PRO as it will cause impact damage to the unit.
- 9) The battery is consumable and its life may be reduced after 1 year of use

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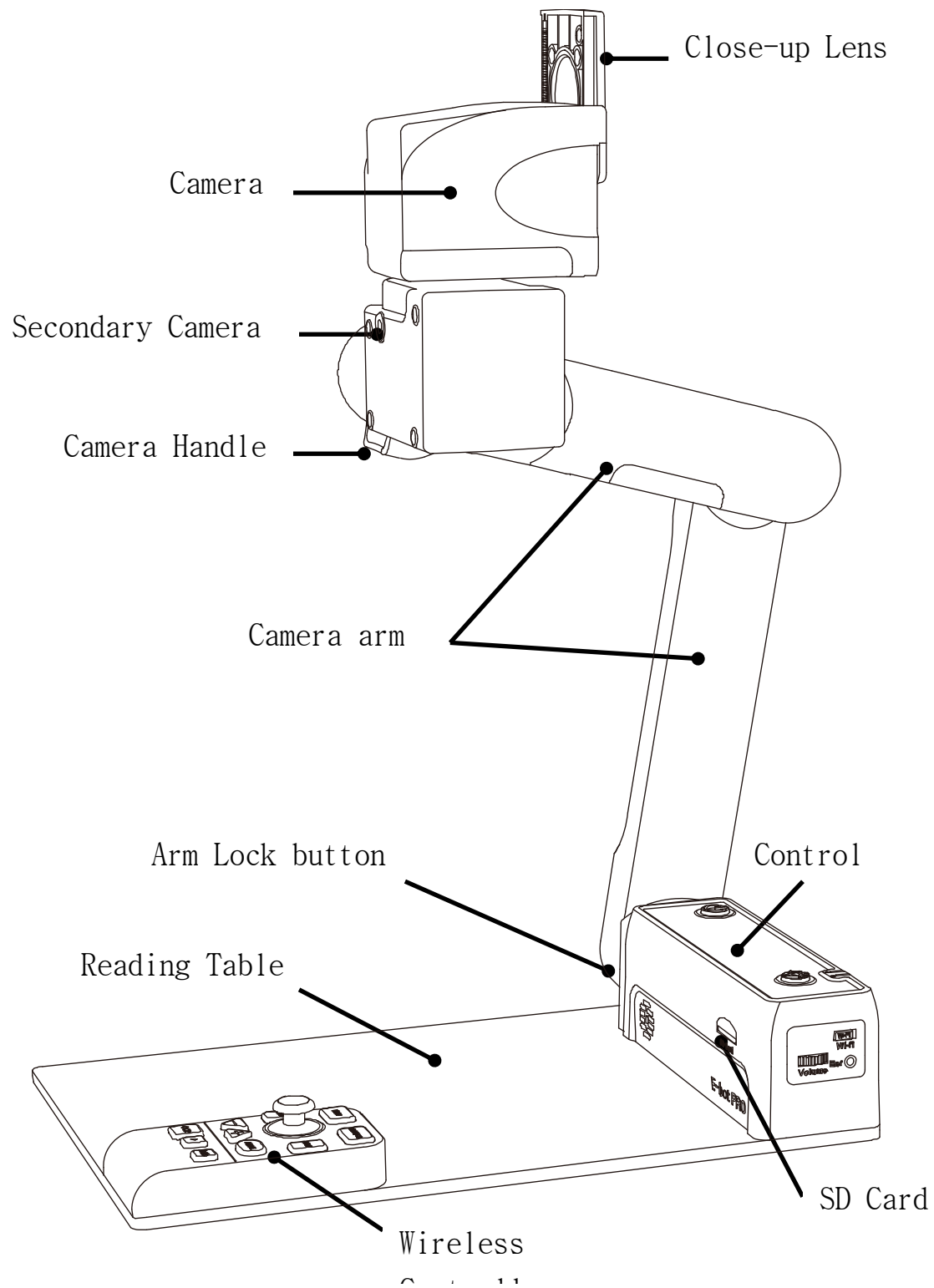
1. Package Contents

When you receive your E-bot PRO, please make sure that the following items are included with your package.

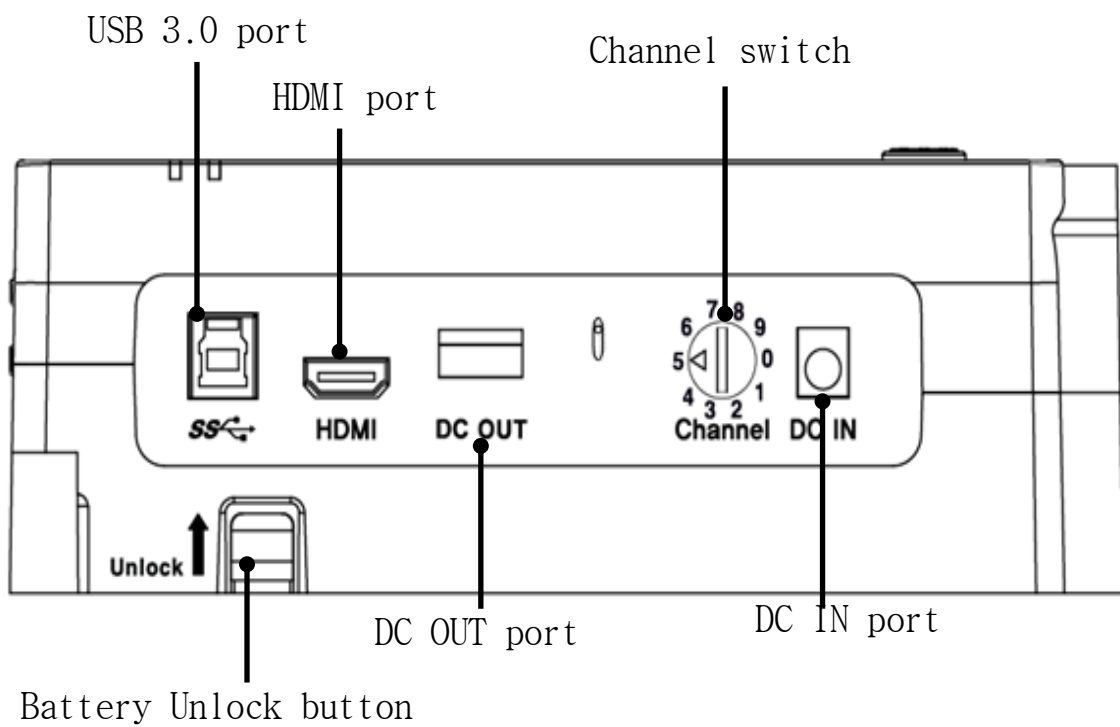
- 1) E-bot PRO
- 2) E-bot PRO Battery
- 3) Wireless Controller
- 4) 2 AAA Batteries for the Wireless Controller
- 5) AC Adapter
- 6) Cables (USB 3.0, HDMI)
- 7) HDMI to DVI Gender adapter
- 8) Carrying Case
- 9) Headphones
- 10) SD Card 16GB
- 11) User Guide
- 12) PC and Mac installation CD

2. E-bot PRO Orientation

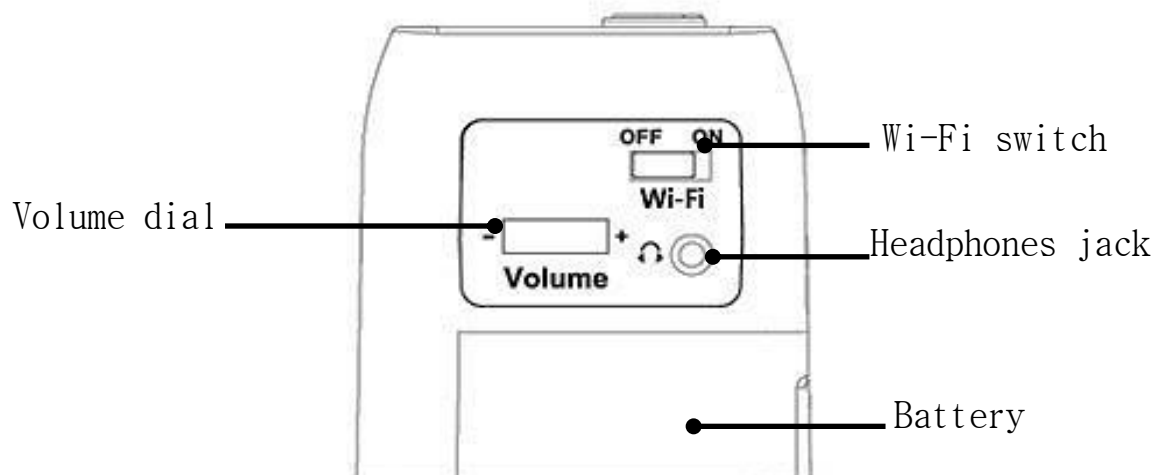
2.1 Overview of E-bot PRO



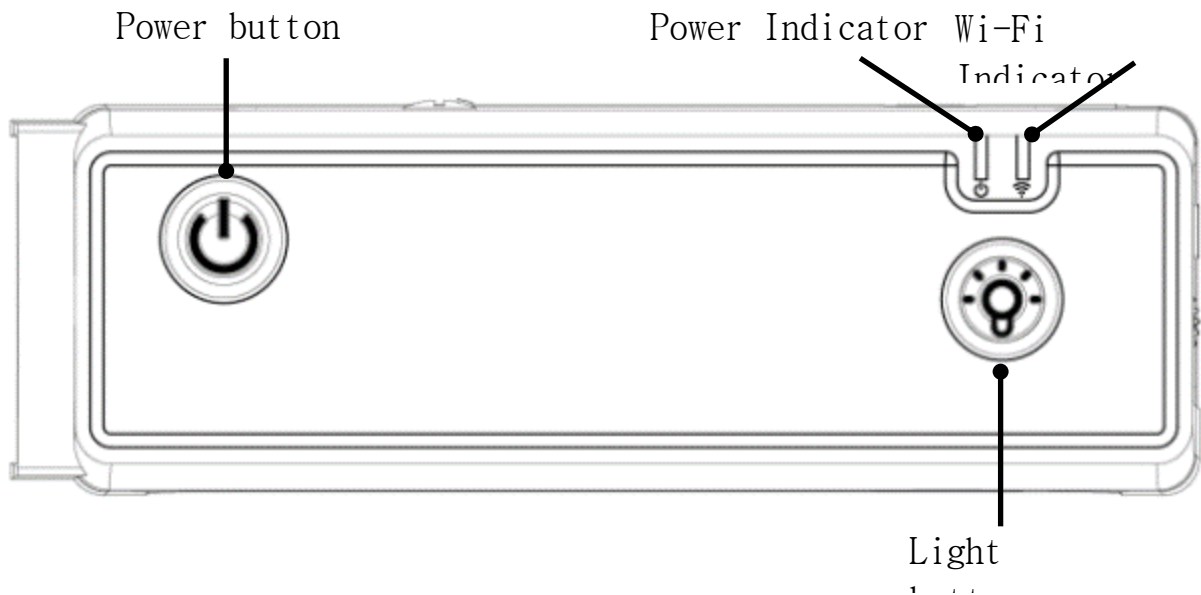
2.2 Back Side of E-bot PRO



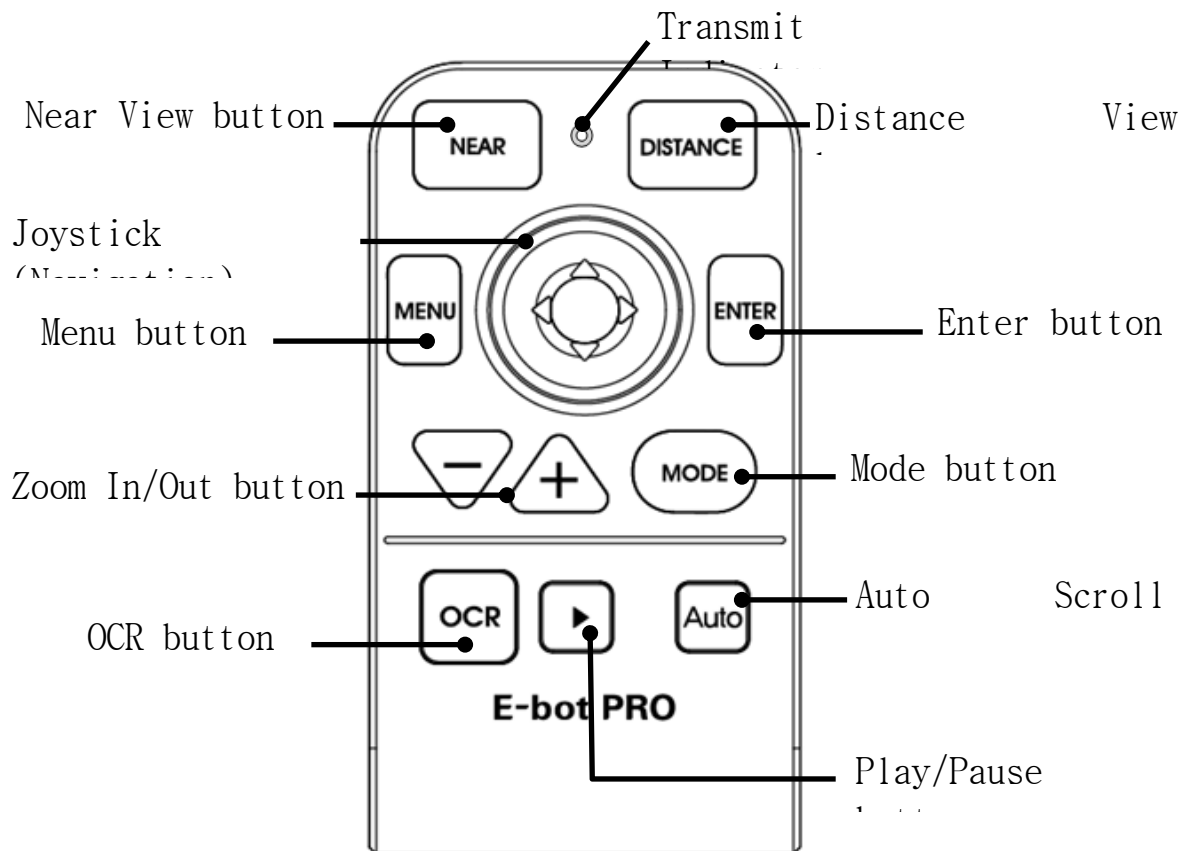
2.3 Right Side of E-bot PRO



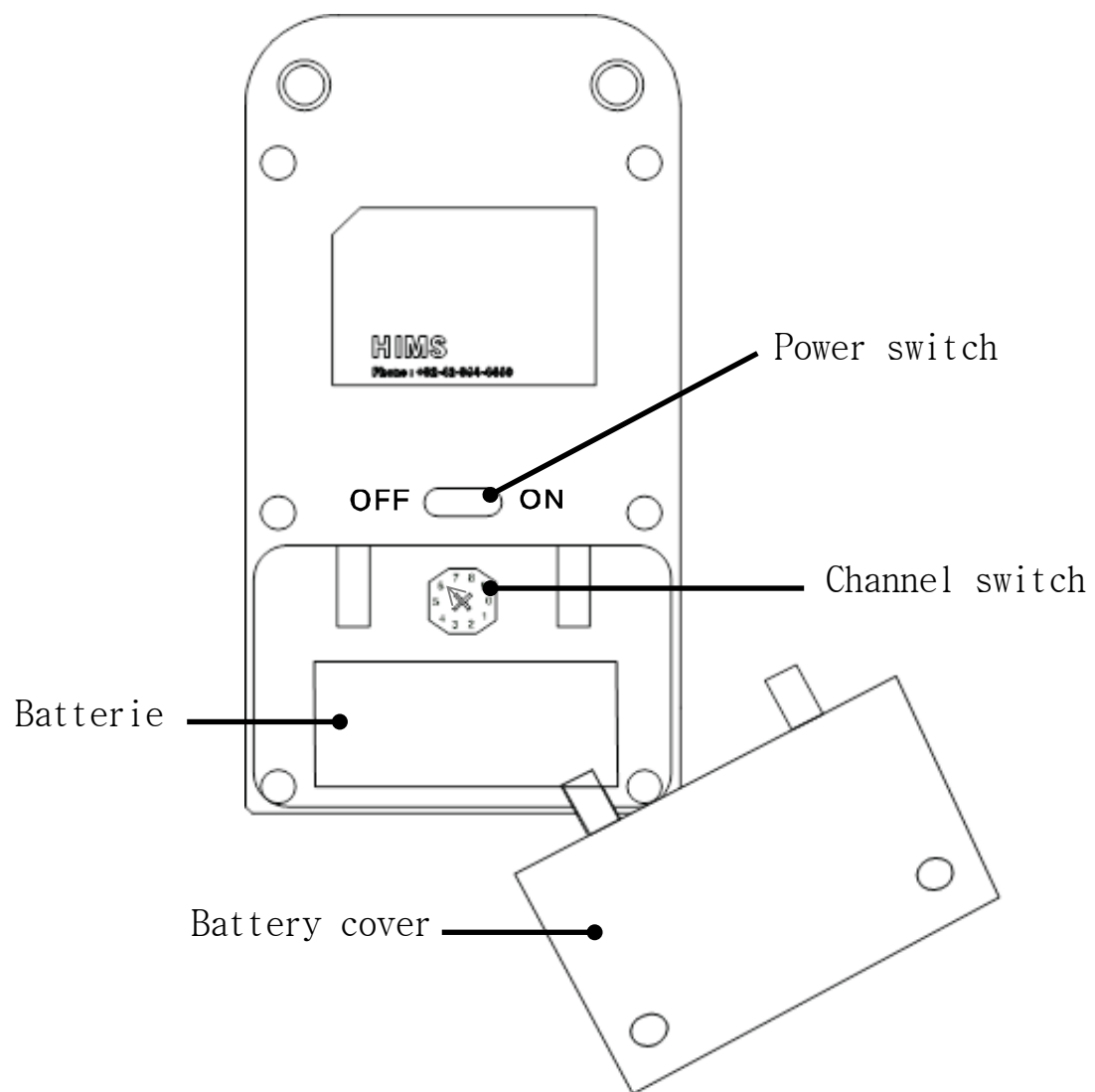
2.4 Front of E-bot PRO



2.5 Front of Wireless Controller



2.6 Back Side of Wireless Controller

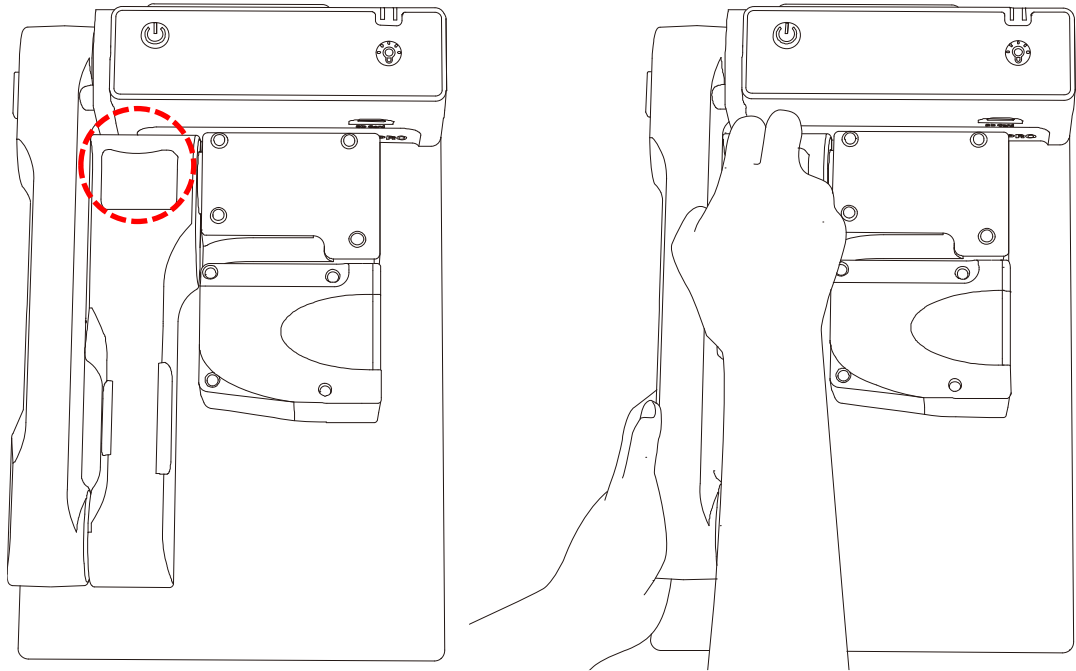


3. Setup E-bot PRO

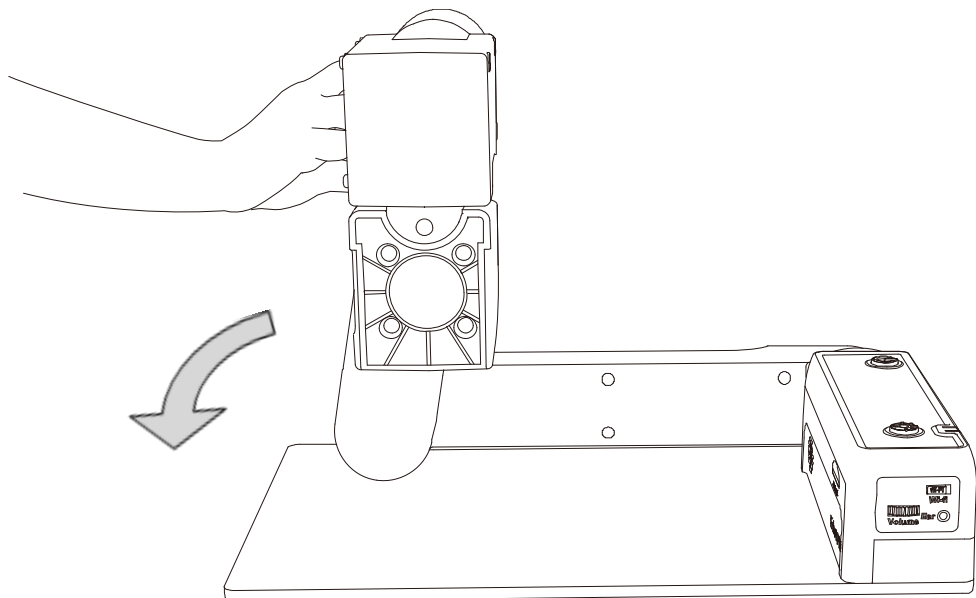
3.1 Unfolding the E-bot PRO

Follow the instructions below to setup the E-bot PRO.

- ① Grip the camera handle and unfold it upward.

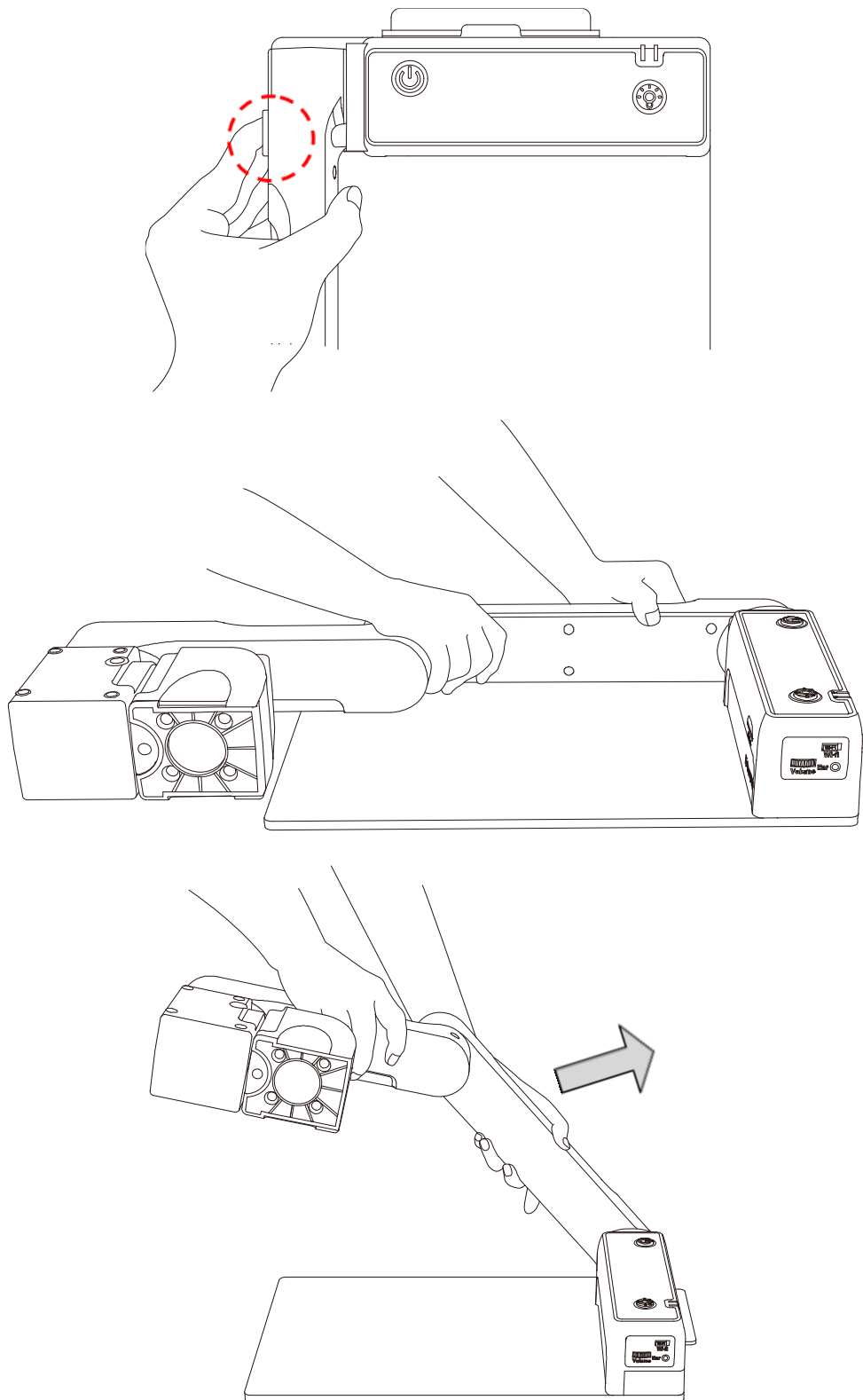


- ② Continue to unfold the camera until it lays flat on the desk or table top.



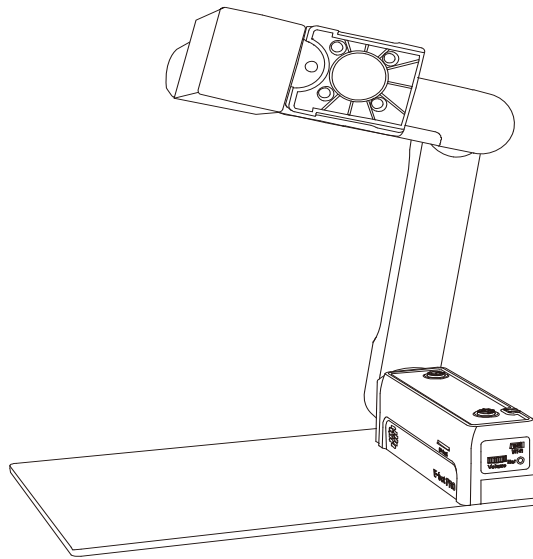
- ③ Press and hold the Arm Lock button on the left side of the E-bot PRO. While holding the Arm Lock button,

unfold the longer arm upward until it clicks in to place.



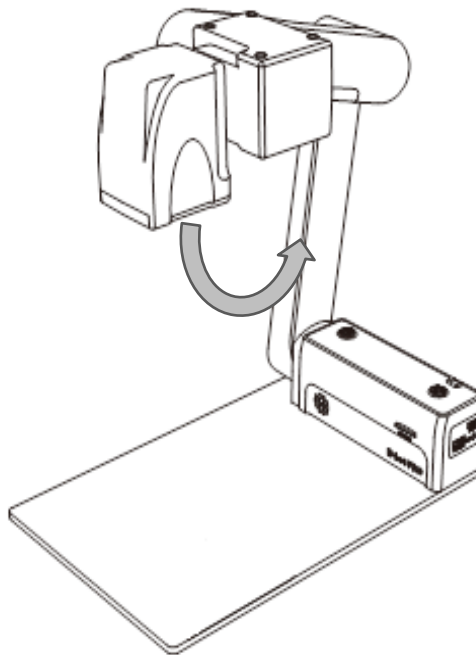
④ The Camera arm should be at a 90 degree angle as shown

in the illustration. The E-bot PRO is ready for use.

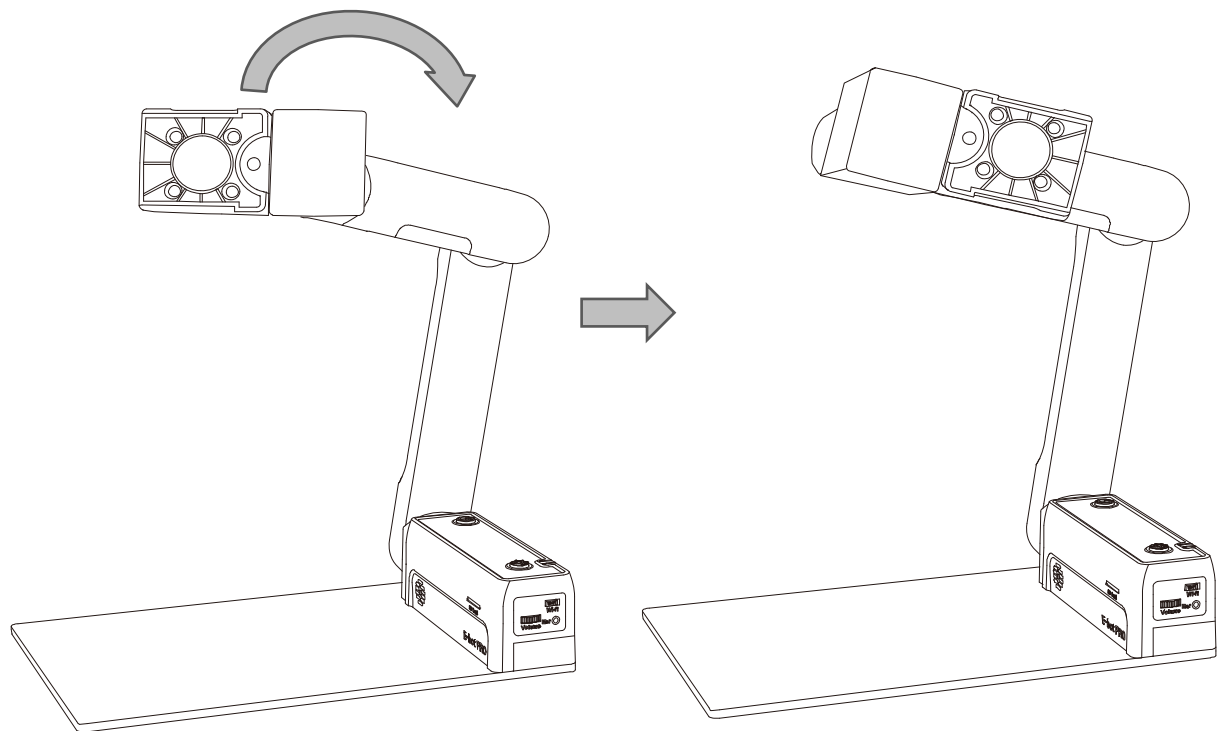


3.2 Folding the E-bot PRO

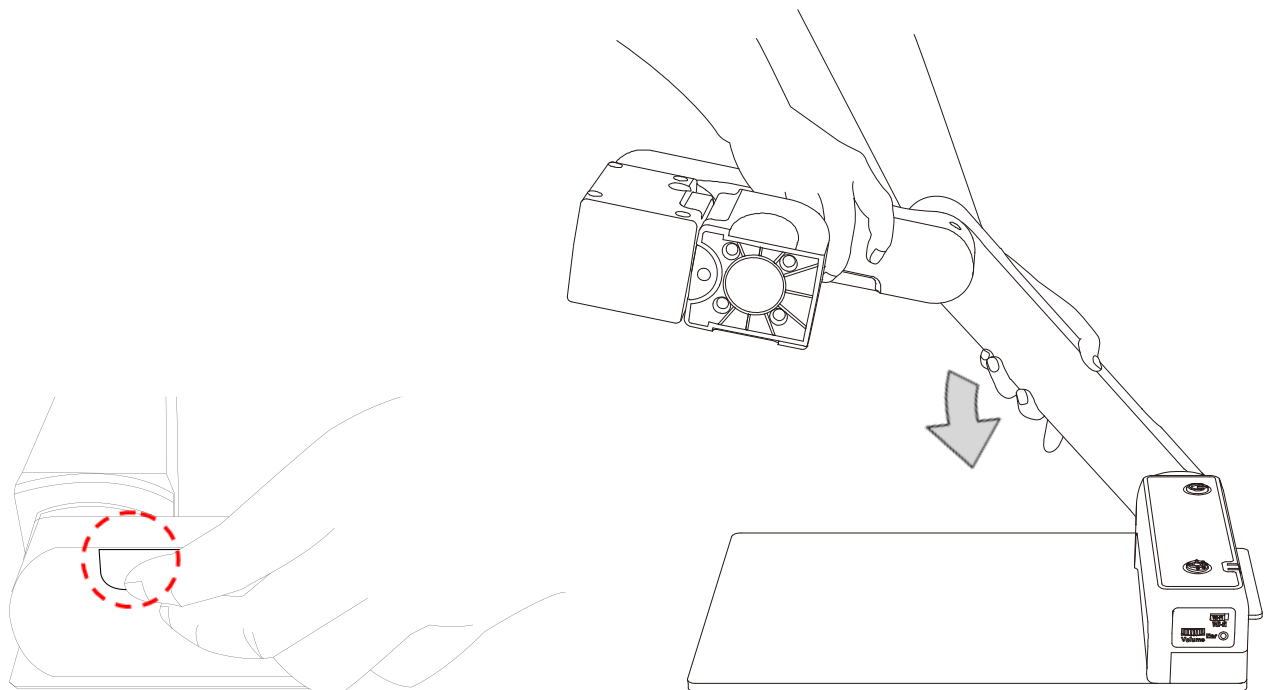
- ① Press the Power button briefly to power off E-bot PRO.
- ② The camera automatically rotates counterclockwise.



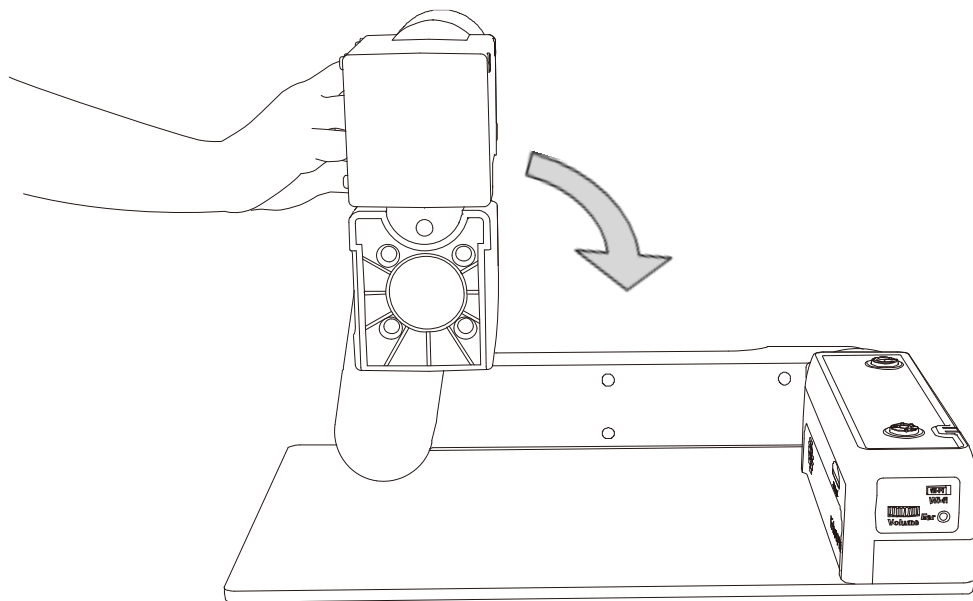
- ③ The camera is automatically flipped to fold in to the arm.



- ④ Press the Arm Lock button, and fold the longer arm down.



- ⑤ Flip the camera piece and fold it inside as well.

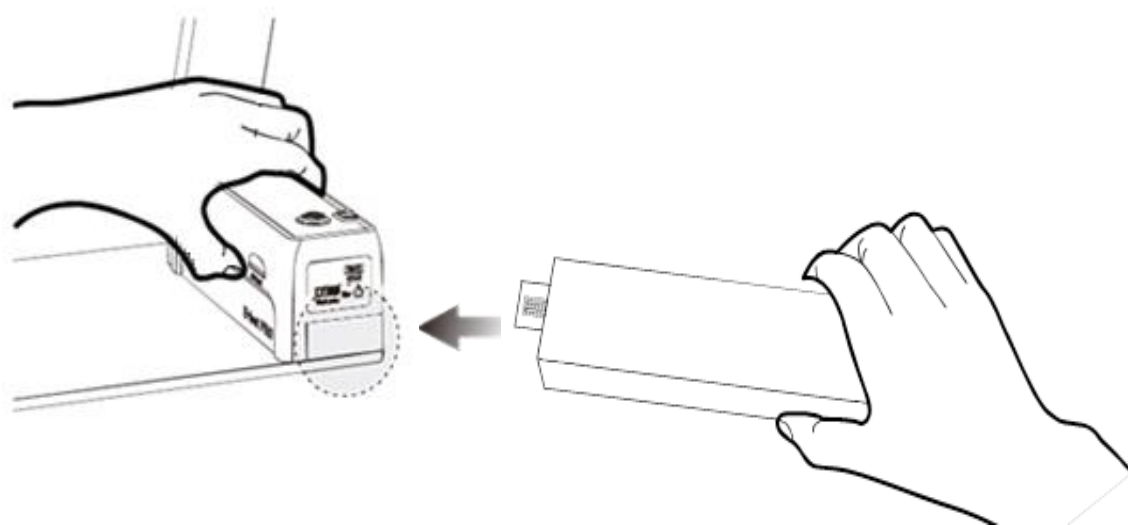


※ **Note:** Please do not simply drop the arm of E-bot PRO

※ **Note:** You must fold the E-bot PRO while in the Near View mode. (For information on the Near View mode, please refer to section “6.5 Changing the Camera Modes”)

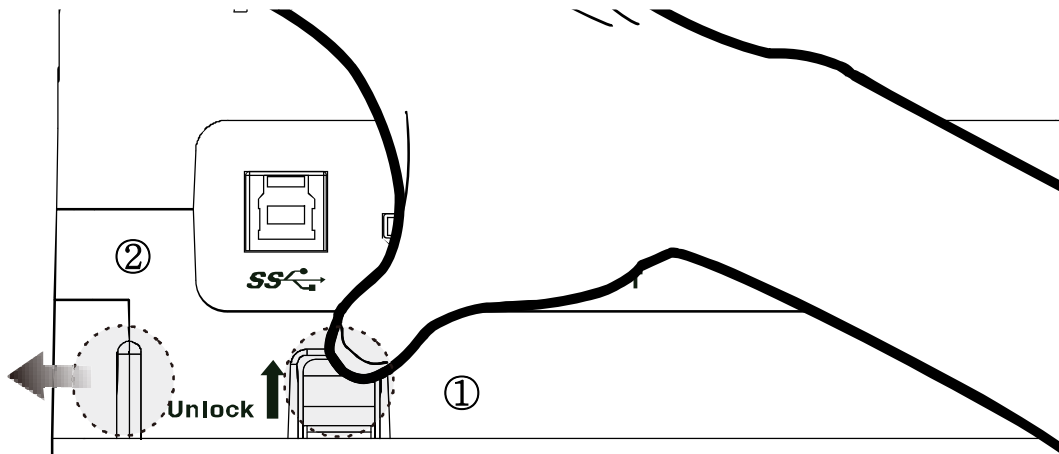
3.3 Inserting the Battery

- ① Grip the E-bot PRO's Main Body, and insert the Battery.
- ② When the Battery is fully inserted, you will feel and hear it click in to place.



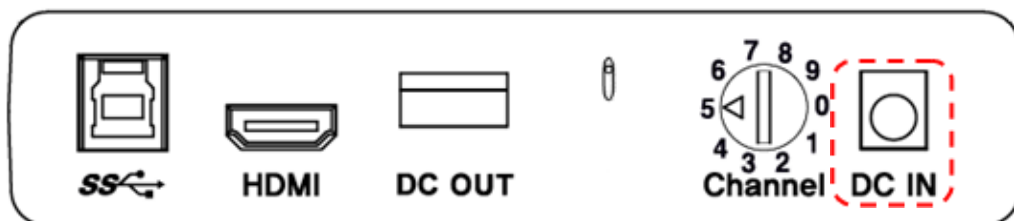
3.4 Removing the Battery

- ① Lift the Battery Unlock button on the back side of the unit.
- ② While lifting the Battery Unlock button, pull the battery out of the compartment.



3.5 Charging the E-bot PRO

3.5.1 Charging via the AC Adapter



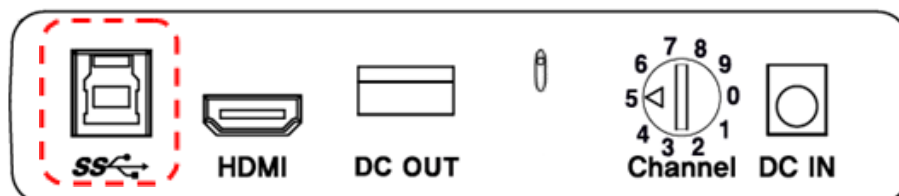
- ① The DC jack is located on the back side of the E-bot PRO.
- ② When E-bot PRO is connected to the AC adapter, the Battery is being charged.

※ **Note:** if the unit is powered off when the battery status is below 5%, please charge E-bot for more than 4 hours before use.

※ **Note:** Please charge the battery for more than 24 hours if the E-bot is left for 3 months of disuse with a charge below 5%.

3.5.2 Charging via USB

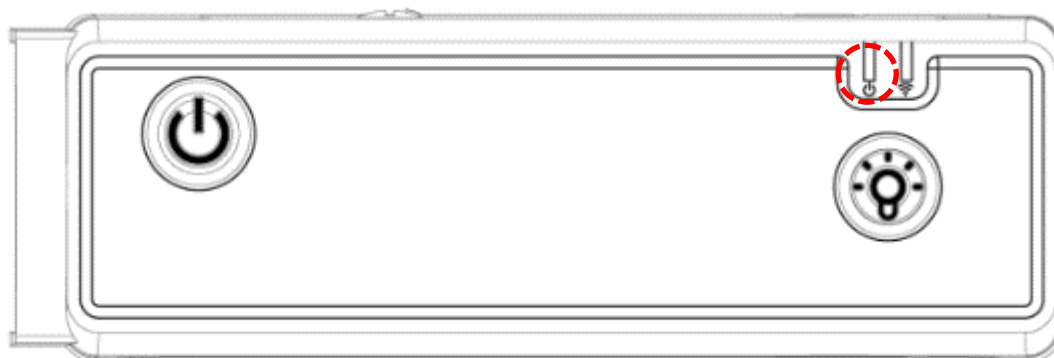
- ① Connect the flatter end of the USB 3.0 cable to the USB port on your PC.
- ② Connect the larger end of the USB 3.0 cable to the USB port on the back side of the E-bot PRO.



※ **Note:** If you connect the E-bot PRO to a computer via USB while E-bot PRO is powered off, the E-bot PRO's battery is charged. However, USB charging is quite slow. We recommend a minimum of 25 hours or more to charge.

3.5.3 The Power Indicator

The Power Indicator is located on the top right of the Control Panel of the Main Body. The Power Indicator indicates status as follows:



When the Battery is being charged, the Power Indicator appears red.

When the Battery is fully charged while E-bot PRO is turned on, the Power Indicator color is changed to green.

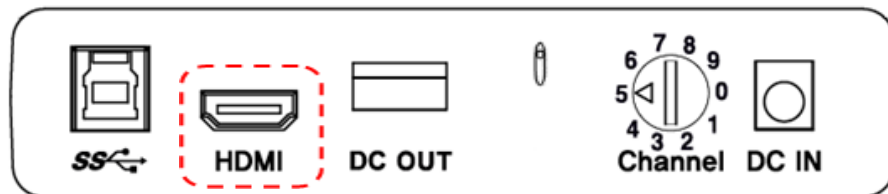
When the Battery is fully charged while E-bot PRO is turned off, the Power Indicator is not lit.

4.How to Connect to Display Devices

E-bot PRO is compatible with various types of display devices, such as desktop video monitors, laptop computers, iPad and Android tablets.

4.1 Connecting a Monitor via HDMI

- ① Plug the monitor's power cord into a power outlet.
- ② Connect the HDMI cable to the HDMI port on the monitor.
- ③ Connect the opposite end of the HDMI cable to the HDMI port on the back side of the E-bot PRO.



※ **Note:** If the monitor has no HDMI port, but has a DVI port, please use the included HDMI to DVI gender adapter.

※ **Note:** When connecting an HDMI monitor, the resolution of video output is 1280x720P regardless of the monitor's resolution.

※ **Note:** if you experience flickering on some monitors, please press the Color mode button and Zoom Out button on the Wireless controller simultaneously. To return to normal operation, please press the Color mode button and Zoom In button on the Wireless controller simultaneously.

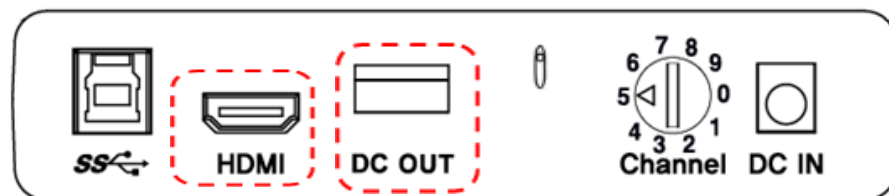
4.2 Connecting a Portable monitor

- ① Connect the portable monitor's USB power cable (USB 2.0) to the DC OUT port on the back side of E-bot PRO.



※ An example of portable monitor

- ② Connect the portable monitor's HDMI cable to E-bot PRO's HDMI port to display E-bot PRO's output on the portable monitor.



※ **Note:** The DC OUT port is used only for connecting the portable monitor. Please do not connect USB drives or other USB devices to the DC out port.

4.3 Connecting a PC or Mac

Recommended specifications of PC and Mac are as follows:

- USB 3.0 support
- CPU: i5
- RAM: 4GB

- Graphics: 1GB
- Windows OS : Windows XP, Windows vista, Windows 7, Windows 8
- Mac OS : OS X Lion(10.7)

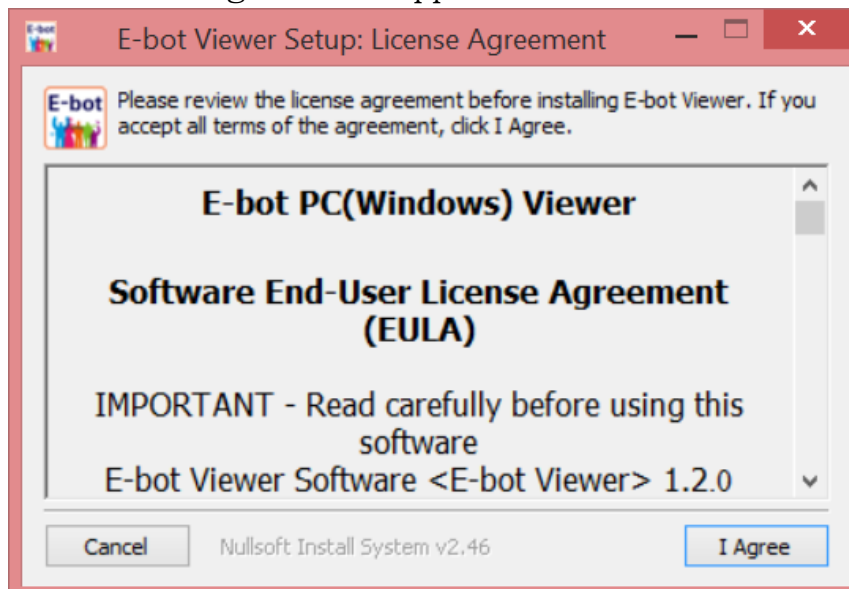
※ **Note:** Tablets running full Windows are also supported. However, you cannot use the E-bot Viewer on tablets running Windows RT.

※ **Note:** PCs using USB 2.0 can display E-bot PRO' s output, however, the display is a low-resolution image.

To display E-bot PRO' s output on your PC or Mac, you first need to install the PC viewer program or Mac viewer program.

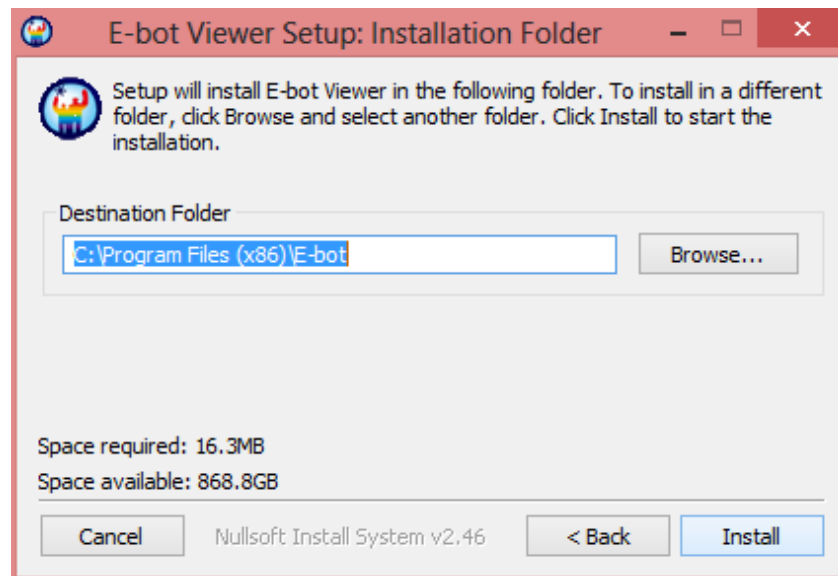
4.3.1 Installing the PC Viewer Program

- ① Insert the PC and Mac installation CD.
- ② Open “My Computer” and select the CD drive.
- ③ Open “PC Viewer (Windows)”
- ④ Run “Win_PC_Viewer_Install_v1.2.0” .
- ⑤ The following window appears.

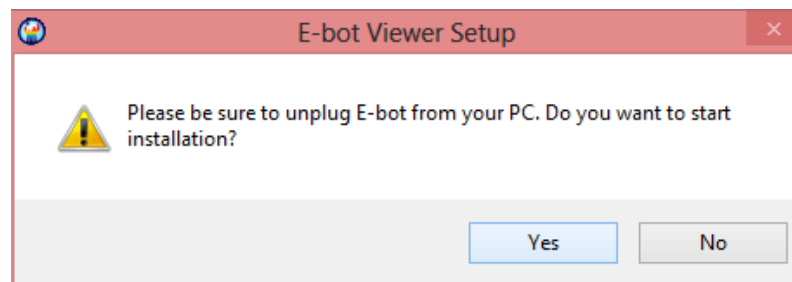


- ⑥ When you press the “I Agree” button, a window will pop up for selecting the installation path.
- ⑦ In the installation path window, select the path and

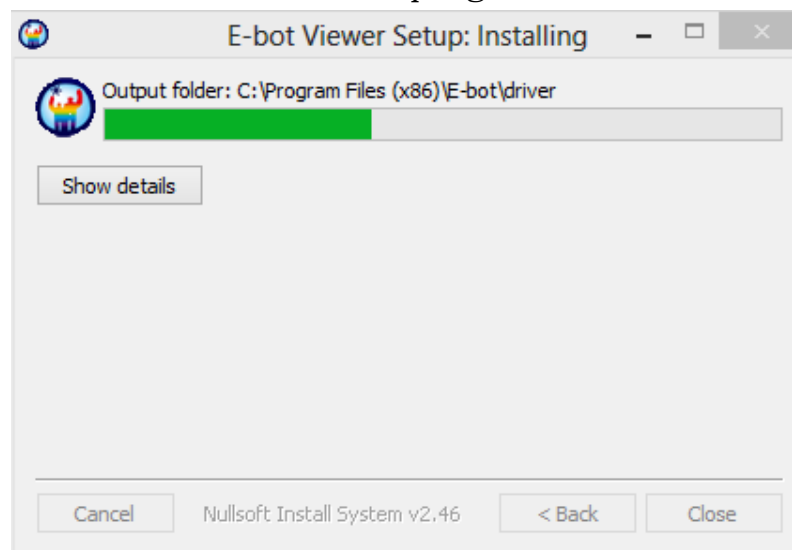
click the “Install button” .



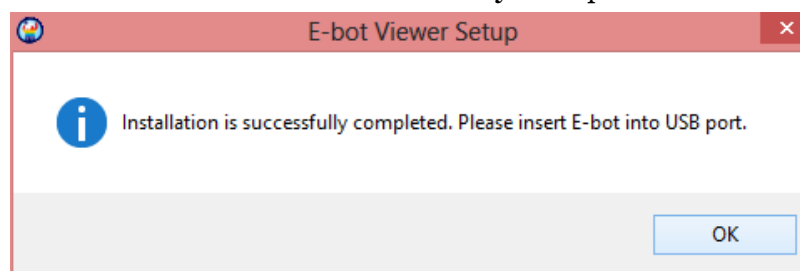
- ⑧ Disconnect the E-bot PRO from the PC, and proceed with the installation.



- ⑨ The installation is in progress.



- ⑩ Installation is successfully completed.

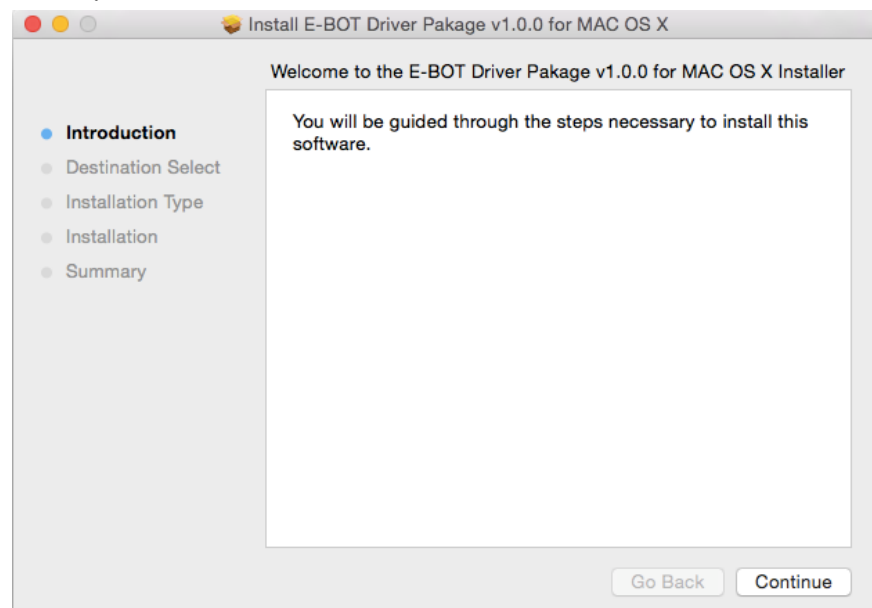


- ⑪ A PC Viewer icon will be generated on the desktop of your PC.

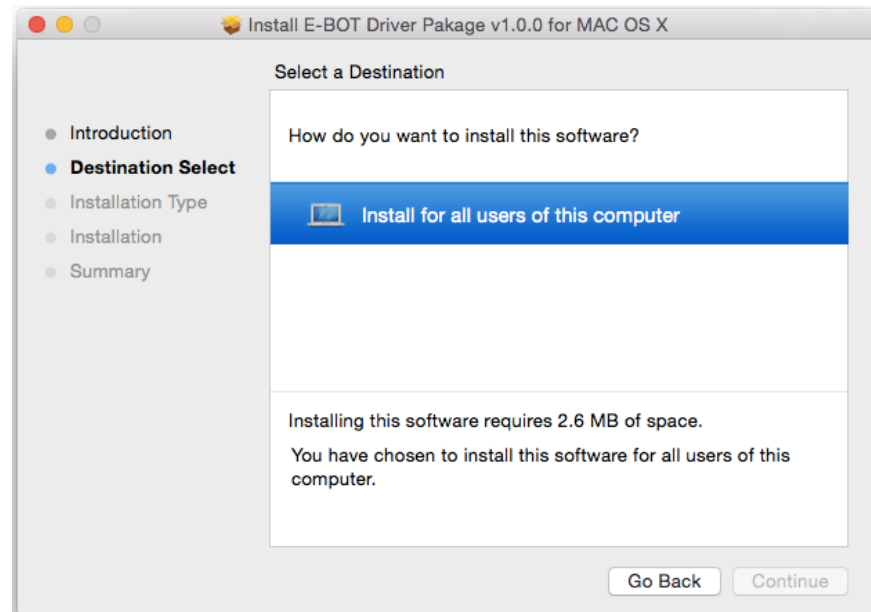


4.3.2 Installing the Mac Viewer Program

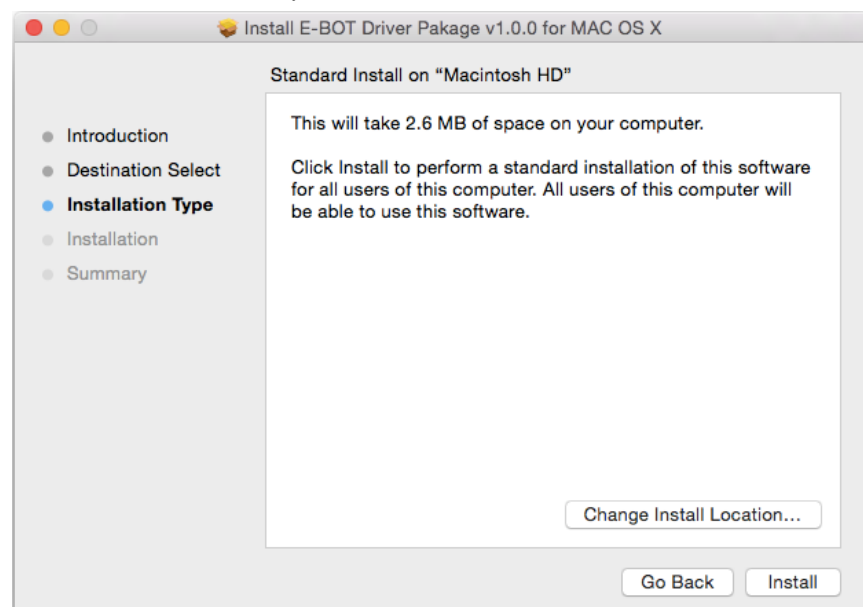
- ① Insert the PC and Mac installation CD
- ② Open “Finder” and select the CD drive.
- ③ Open the “Mac Viewer” folder.
- ④ The folder contains two files.
 - “E-BOT Driver Package v1.0.0 for MAC OS X.pkg”
 - “EBotViewerForOSX_v1.2.0.app” .
- ⑤ Run “E-BOT Driver Package v1.0.0 for MAC OS X.pkg” .
- ⑥ Check the below window and click the “Continue button” .



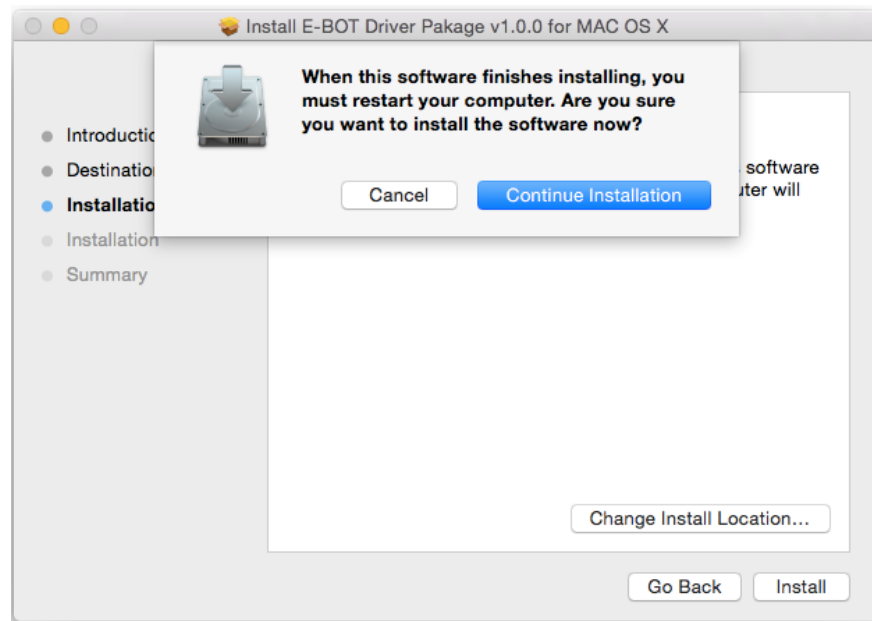
- ⑦ Select “Install for all users of this computer” and click the continue button.



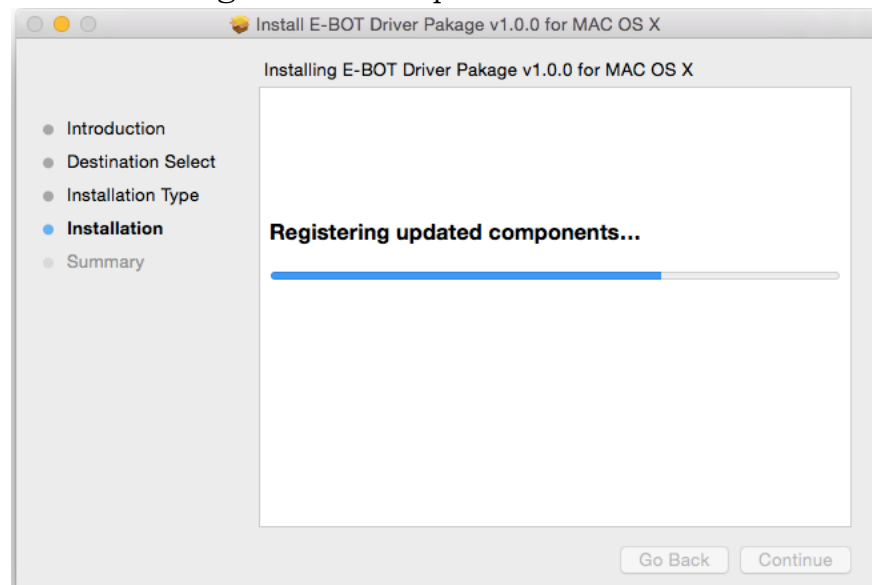
- ⑧ Check the required space on the Mac and click the “Install button”. It requires 258KB of space on your computer to install.



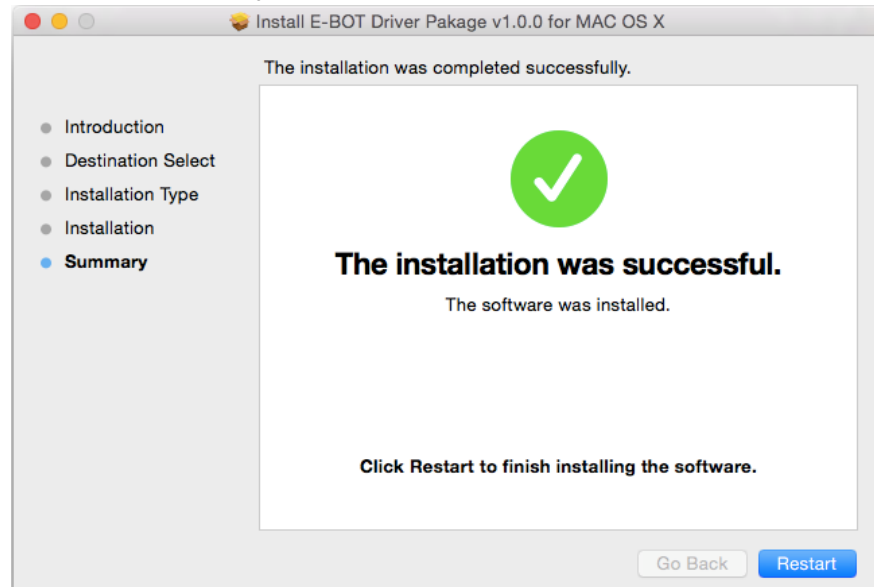
- ⑨ Rebooting is required to finish the installation. Please click “Continue Installation” .



- ⑩ Installation begins. It requires around 1 minute.



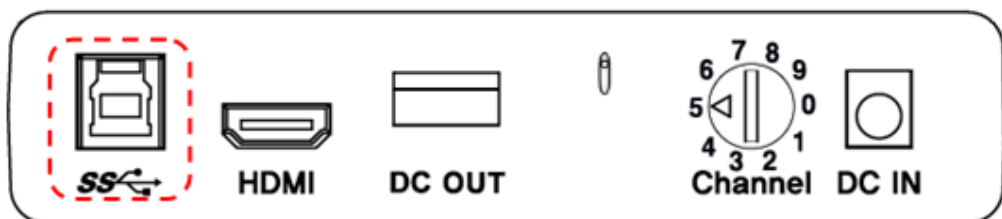
- ⑪ After finishing Installation, please click the Restart button to reboot your Mac.



- ⑫ After rebooting, Please connect E-bot to Mac and run file “EBotViewerForOSX_v1.2.0.app”

4.3.3 Connecting the PC and Mac Viewer Programs with E-bot PRO

1) Connecting a PC or Mac via USB



- ① Connect the E-bot PRO's USB 3.0 port to the USB port of your PC or Mac using the included USB 3.0 cable.
- ② And run the E-bot viewer program on your PC or Mac. Select “USB 3.0” as the connection method.



※ **Note:** for Mac, only USB 3.0 connectivity is supported.

※ **Note:** If your PC does not support USB 3.0 or If your PC is connected to USB 2.0, USB 2.0 will be displayed. The enlarged image resolution is automatically adjusted to accommodate the difference in connection speed.



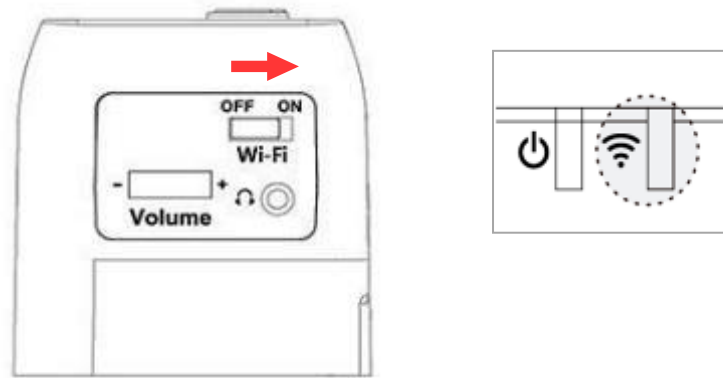
※ **Note:** For instructions on controlling E-bot PRO using a keyboard and mouse, please refer to section “10.Quick Guide to PC or Mac operations” .

2) Connecting a PC via Wi-Fi

E-bot PRO can output magnified images via Wi-Fi connection to PC, iPad and Android tablet.

※ **Note:** Wi-Fi connectivity is not supported on the Mac.

- ① To output to your PC via Wi-Fi, turn on the E-bot PRO.
- ② Set the Wi-Fi switch to ON. The Wi-Fi indicator is changed to blue to indicate Wi-Fi is on.



- ③ Search for the E-bot's Wi-Fi Access Point from your PC.

※ **Note:** Your PC must be Wi-Fi enabled to search for and connect to E-bot PRO's Wi-Fi Access Point.

- ④ Enter the PC's wireless network connection area and connect to the E-bot PRO network. (Ex: Ebot_03XX)
- ⑤ When you are asked for the network key, please enter the E-bot PRO's Wi-Fi password. The default password is "00000000".

※ **Note:** For information about changing the Wi-Fi password, please refer to section "8.8 Wi-Fi Password Change".

- ⑥ Once your PC is connected to the E-bot network, run the E-bot viewer program on your PC, and select Wi-Fi as the connection method.

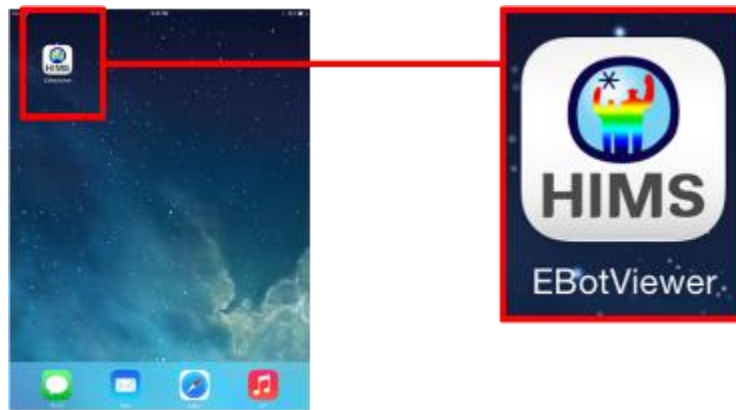


※ **Note:** You cannot use the Internet via Wi-Fi when you connect to E-bot PRO with a PC via Wi-Fi.

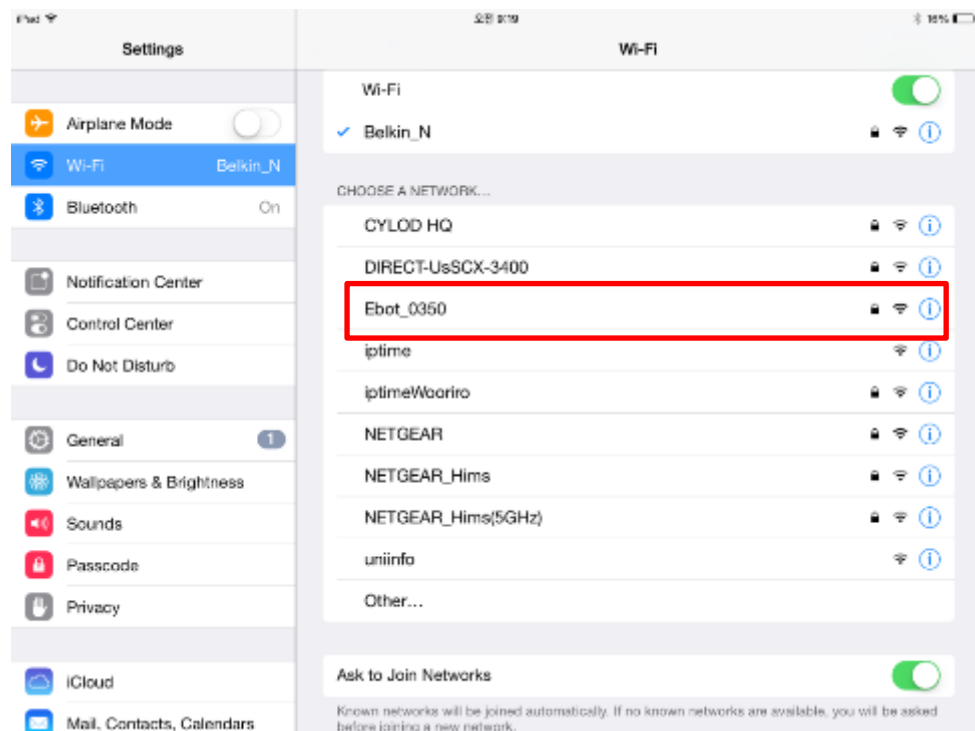
4.4 Connecting an iPad or Android Tablet via Wi-Fi

iPad running iOS 7 and higher and Android Tablet running 4.3 and higher are supported.

- ① To view and operate E-bot PRO via your tablet, please connect to the Apple App Store or Google Play Store. You can download the E-bot Viewer by searching “E-bot Viewer” then install the free E-bot Viewer application.
- ② Once you have finished the download and installation, you will find the below icon on the background of your iPad or Android tablet.



- ③ When the installation is complete, turn on the E-bot PRO. Then turn on the Wi-Fi switch on the side. Once Wi-Fi is turned on, the Wi-Fi indicator light on the Main Body appears blue.
- ④ Be sure Wi-Fi is ON on your iPad or Android tablet, then select and connect to E-bot PRO from the Wi-Fi networks list. (Ex: Ebot_03XX).



- ⑤ Connecting to E-bot PRO requires a network key. By default, it is “00000000”. Enter the network key and connect as you would normally connect to a Wi-Fi network on your tablet.

※ **Note:** For information about changing the Wi-Fi password, please refer to section “8.8 Wi-Fi Password Change”.

- ⑥ Run the E-bot Viewer app on your iPad or Android tablet, and make sure that the image is displaying correctly.

※ **Note:** For instructions on controlling E-bot PRO using an iPad or Android tablet, please refer to section “9. Tablet Viewer Gestures”.

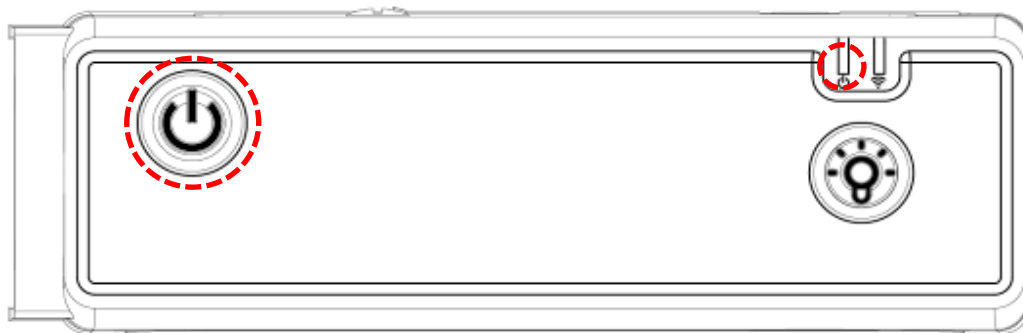
※ **Note:** If you have E-bot PRO connected via HDMI or DVI, then connect to another display device via Wi-Fi, display and control are given to the device using Wi-Fi. When the device using Wi-Fi is disconnected, the control and display return to the device using HDMI or DVI.

※ **Note:** E-bot PRO can display the same image simultaneously via a PC using USB and via Wi-Fi. However, control is only available via the Wi-Fi enabled device. When the Wi-Fi device is disconnected, the control returns to the USB-enabled PC.

※ **Note:** E-bot PRO cannot display via 2 devices simultaneously when using a Mac computer.

5. Using the Control Panel on the Main Body

5.1 Power On/Off



- ① Press the Power button briefly to turn on the E-bot PRO. It normally takes 6 to 8 seconds to power up. However, when powering on for the first time, or after the battery is completely depleted, booting takes about 30 to 40 seconds and the logo is shown. When booting is complete, the Power On sound is heard.
- ② As E-bot PRO powers on, a beep is heard and the location of the camera and all option settings return to their status before the E-bot PRO was powered off.
- ③ Press the Power button briefly again to turn off the E-bot PRO. The camera returns to its default position.
- ④ To completely shut down the E-bot PRO, press and hold the Power button for more than 3 seconds.

※ **Note:** The advantage of a complete shutdown is extending the battery life. It is useful when you do not plan to use

E-bot PRO for a long time or when you intend to travel long distances with E-bot PRO.

✱ **Note:** If the E-bot PRO is in the folded position, it cannot be powered on. If the E-bot PRO is folded when it is turned on, the E-bot PRO is completely shut down. A quick shut down is recommended when E-bot is frequently used..

5.2 Light On/Off

In the Near View mode, the built-in light is automatically turned on to ensure a clear image. E-bot PRO contains a sensor to detect the amount of illumination in your current surroundings, and contrast is automatically adjusted according to the ambient brightness.



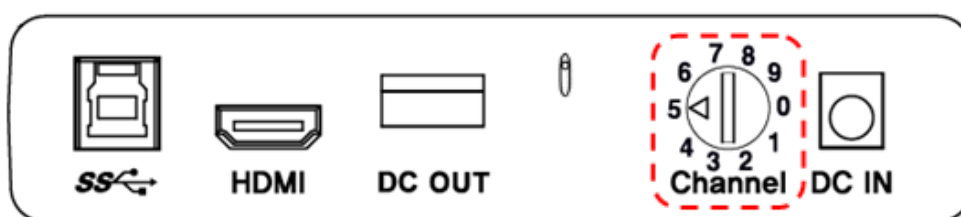
Press the Light button to turn the lights on or off. When viewing glossy objects, please turn off the light to avoid glaring.

✱ **Note:** In the Distance View mode, the light is not turned on.

✱ **Note:** In the Near View mode, if the light is turned off when you power off the E-bot PRO, it is automatically turned on when you power on again.

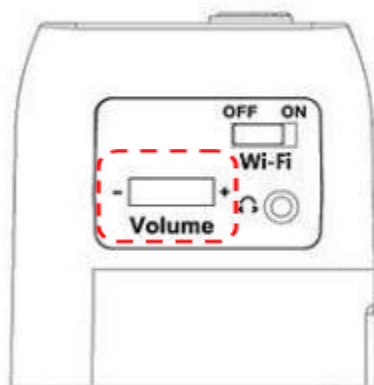
5.3 Pairing the Main Body with the Wireless Controller

You can check the channel values on the back side of the Main Body. An arrow is pointing to the currently set value. The Main Body and the connected Wireless Controller's channel setting value must be set the same. (For information on checking the Wireless Controller Channel Value, please refer to section "6.3 Pairing the Wireless Controller with the Main Body")



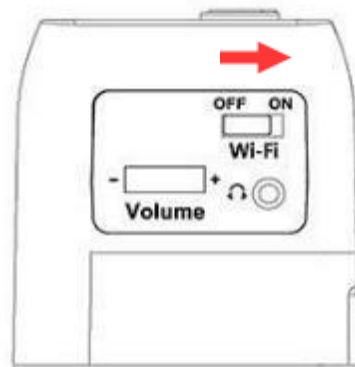
5.4 Volume Up/Down

- ① E-bot PRO's volume dial is located on the right side of the Main Body.
- ② Turn the dial away from you, and the volume is increased, turn the dial toward you, and the volume is decreased.



5.5 Turning Wi-Fi On/Off

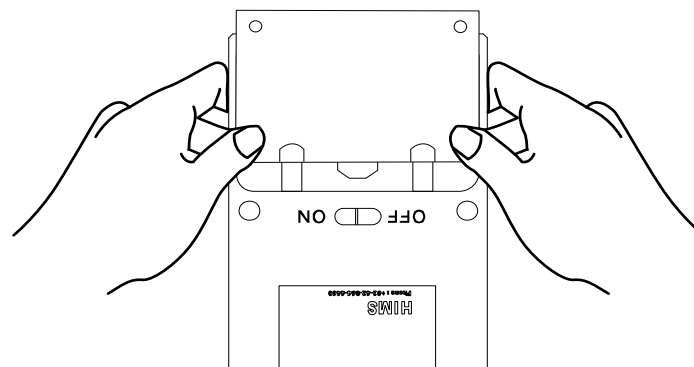
To connect to a PC, iPad or Android tablet via Wi-Fi, set the E-bot PRO's Wi-Fi switch on the right side of the Main Body to ON. When the Wi-Fi is turned on, the Wi-Fi Indicator changes to blue.



6. Using the Wireless Controller

6.1 Inserting the Batteries

- ① Place your fingers in the grooves on the cover on the back side of the Wireless Controller and push down and away to remove the battery cover from the unit.
- ② Insert the Batteries, close the battery cover.



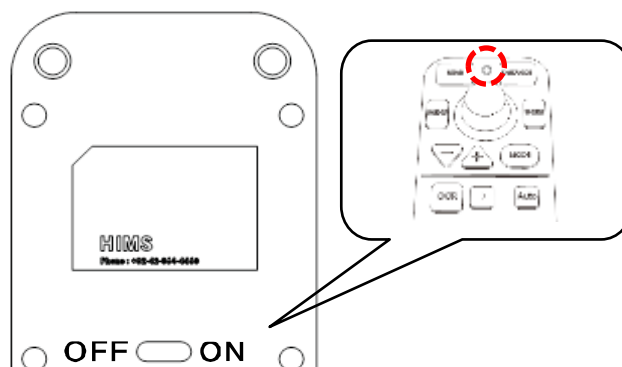
※ **Note:** The Wireless Controller requires 2 AAA batteries.

6.2 Power On / Off

- ① Push the power switch on the back side of the Wireless Controller to ON. To power it off, push the power switch

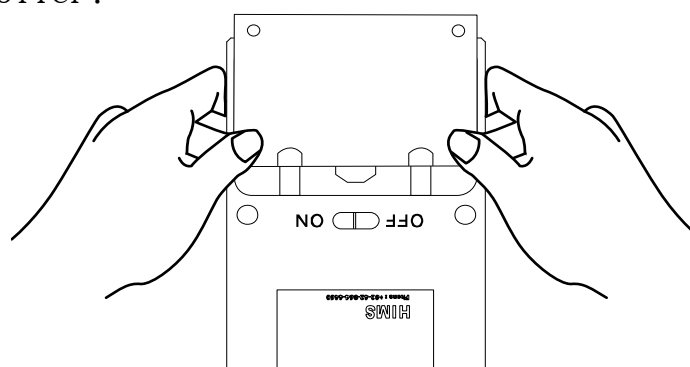
to OFF.

- ② When the Wireless Controller is powered on, the Transmit Indicator lights up.

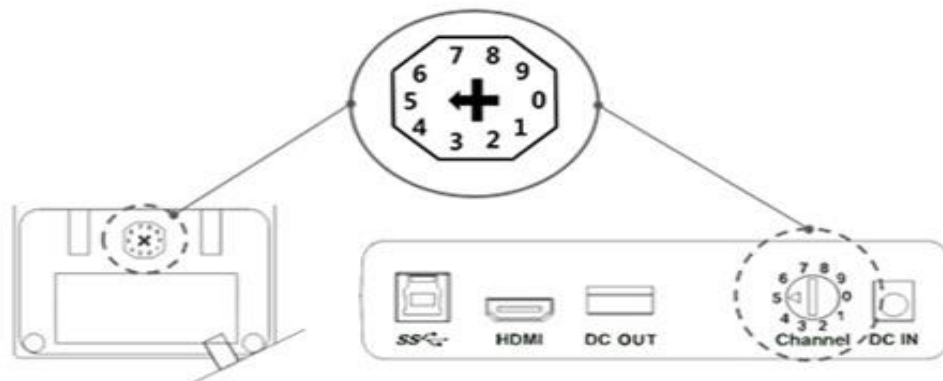


6.3 Pairing the Wireless Controller with the Main Body

- ① Remove the battery cover from the back side of the Wireless Controller.



- ② Check the channel setting switch. The channel values are set as shown in the below picture. Make sure it is set to the same channel value as the one shown on the back side of the E-bot PRO. If the channel value is different, please use (-) a screw driver or your fingernail to change the setting.

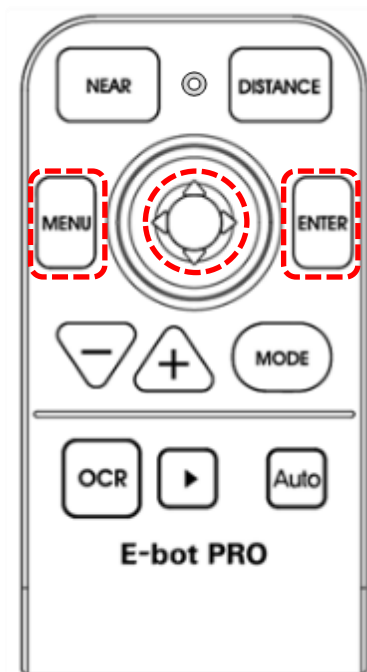


Back side of the Wireless Controller Back side of the E-bot PRO

※ **Note:** if the Wireless Controller does not operate even though the channel value is the same, please change the batteries in the Wireless Controller.

6.4 Using the basic buttons

You may change many of the E-bot PRO's settings via the Options menu. Use the Menu button, Joystick and Enter button in the manner shown below:



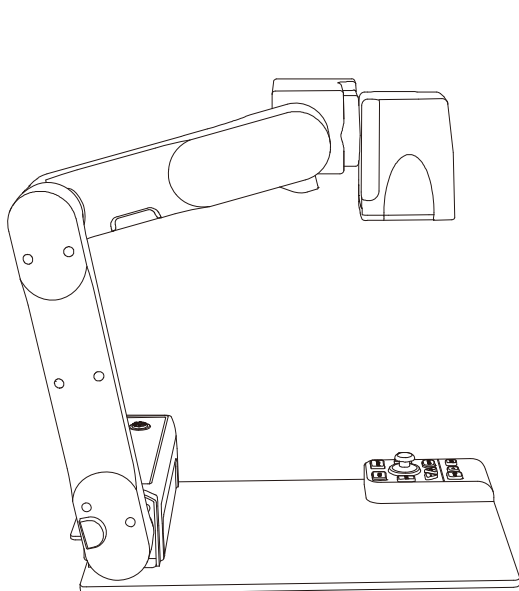
- Menu button: 1) Open Menu
2) Close Menu
- Joystick: Camera Moving
Joystick (Up/Down): Move between items
Joystick (Right/Left): 1) Move between tabs
2) Change setting values
- Enter button: 1) Select item
2) Line Feed
- Enter button: 1) Select item

※ **Note:** The buttons on the Wireless Controller are color coded according to their use for easier identification. Buttons used to adjust settings are colored Black.

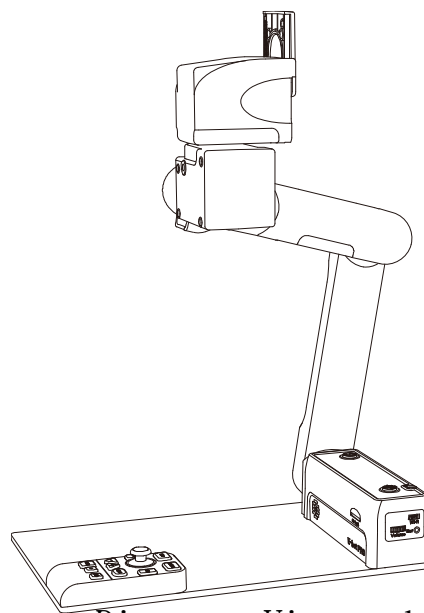
※ **Note:** If you press buttons that have no valid function in

the current mode, a beep sound is heard.

6.5 Changing the Camera Modes

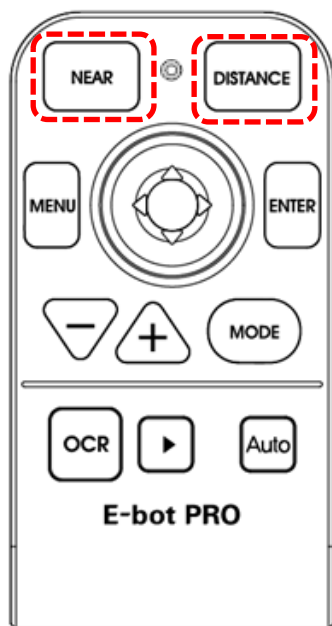


Near View mode



Distance View mode

E-bot PRO has two camera modes; Near View mode and Distance View mode. The camera mode can be changed by pressing the buttons on the top row of the Wireless Controller. Press the button on the right to switch to Distance View, and press the button on the left to switch to Near View.



※ **Note:** Magnification, color mode, and function settings for each mode are saved separately. So when switching the camera mode, the settings are automatically changed to the settings you last used for that mode.

6.5.1 Camera angle modes in Distance View

E-bot PRO supports 2 separate camera angles in Distance view to accommodate various classroom situations.

1) Normal Angle Mode

Press the Zoom In button and Distance button on the Wireless Controller to set Normal Angle mode. The view range in this mode is as below.

- Left : 45° , Right : 30°

2) Maximum Angle Mode

Press the Zoom Out button and Distance button on the Wireless Controller to set Maximum Angle mode. The view range in this mode is as below.

- Left : 90° , Right : 30°

※ **Note:** There may be times when you need to switch to the Maximum Angle mode for a complete view of a wide object such as a white board. However, when using the Maximum Angle mode, the camera cannot be moved vertically in a proper fashion due to the angle.

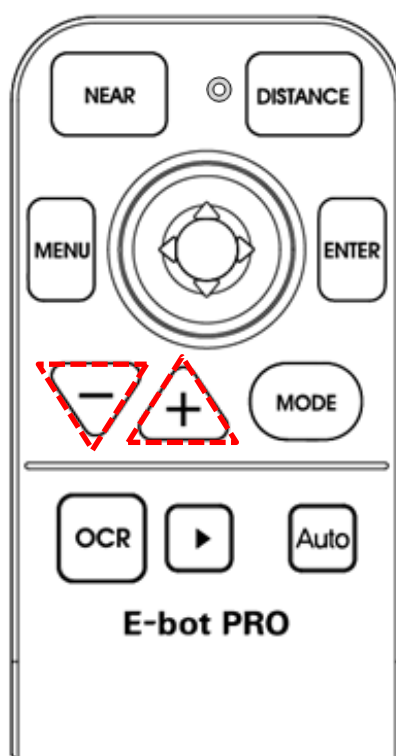
6.6 Magnification

You can change the magnification level to suit your visual needs and the size of the print you're currently reading.

The magnification level ranges from 1 to 62.

Higher magnification levels result in slower camera movement.

The Zoom In / Out buttons on the Wireless Controller are located as shown below:

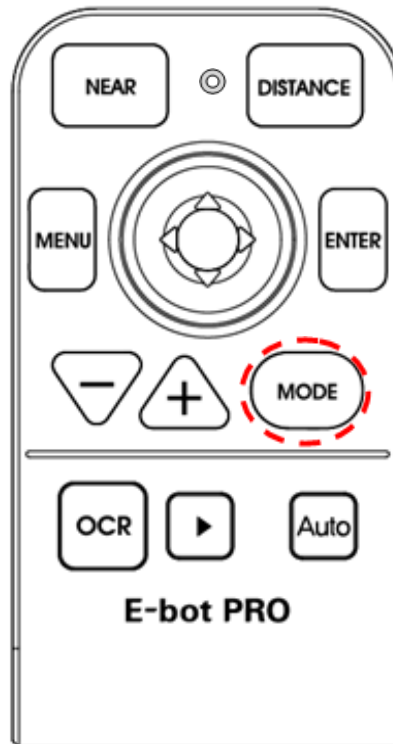


As you press and hold either of these buttons, the magnification level is adjusted continuously.

※ **Note:** Magnification related buttons are colored orange.

6.7 Changing the Color Mode

You can change the color of the text and/or background on the screen to accommodate your visual needs in regards to text type and your visual condition.



You can use the Mode button on the Wireless Controller to cycle through the color modes. The Mode button is colored blue.

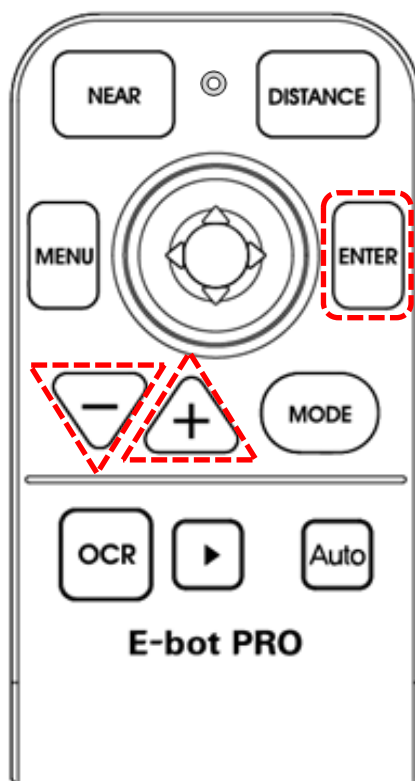
✱ **Note:** The E-bot PRO allows you to alternate between Natural color mode and your current color mode setting. Press the Mode button on the Wireless Controller for more than 2 seconds to switch between Natural color mode and your current color mode setting.

6.8 Contrast

Due to variations in paper type, text type and color and the background color of documents or books that you are reading, you may need to adjust the contrast to read the documents or books clearly.

Press the Enter button and Zoom In button to increase the contrast

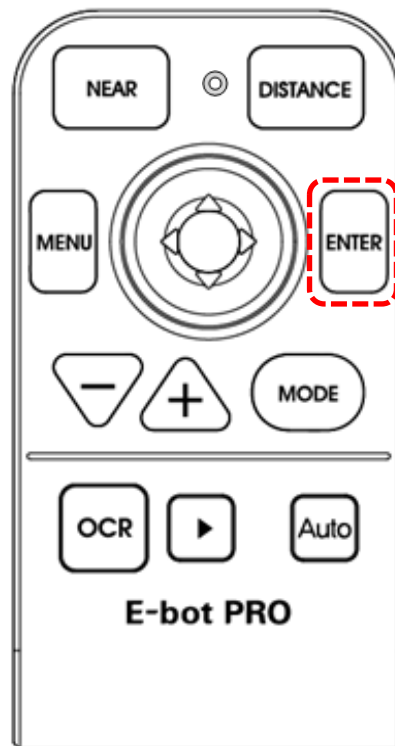
Press the Enter button and Zoom Out button to decrease the contrast.



You may also bring up the menu and choose “Contrast” . The Contrast level can be adjusted from 1 to 40. The default level is 20.

6.9 Focus Lock

By default, E-bot PRO uses Auto Focus. However, if you’ re writing under the camera or doing something else on which you don’ t want the camera to focus, you can use the Focus Lock to lock the focus on the text rather than allowing the Auto Focus to follow your hand or pen.



Press the Enter button on the Wireless Controller for more than 2 seconds or bring up the menu and choose the “Focus lock” to activate Focus Lock.

When Focus Lock is activated, the Focus Lock icon is displayed on the upper right corner of the screen.



To resume using Auto Focus, press and hold the Enter button on the Wireless Controller once again.

※ **Note:** Focus is unlocked automatically when the camera is switched from Distance View mode to Near View mode or powering off when focus is locked.

6.10 Finding your current Reading Position

Use the Find Location function, to find the position of the magnified text you are currently reading in relation to the

document placed on the reading table.

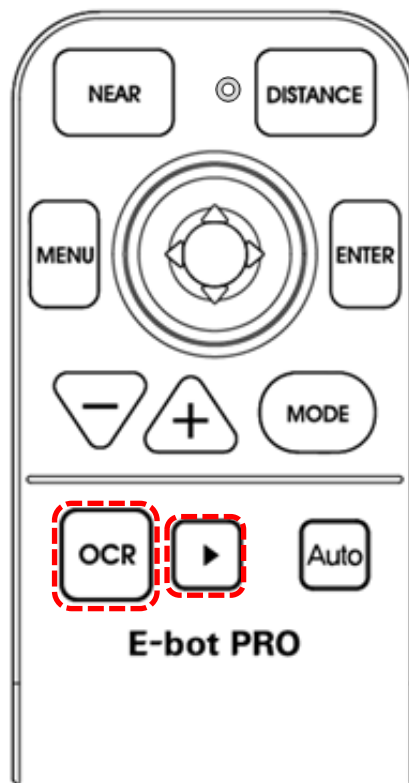


Press and hold the Zoom In button and Zoom Out together, the magnification level is returned to normal and a red cross appears in the center of the display to assist your orientation so that you can locate the placement of the text in relation to the whole document.

Release both the Zoom In and Zoom Out buttons, and the magnification level returns to the rate you were using before pressing the Zoom buttons.

6.11 OCR

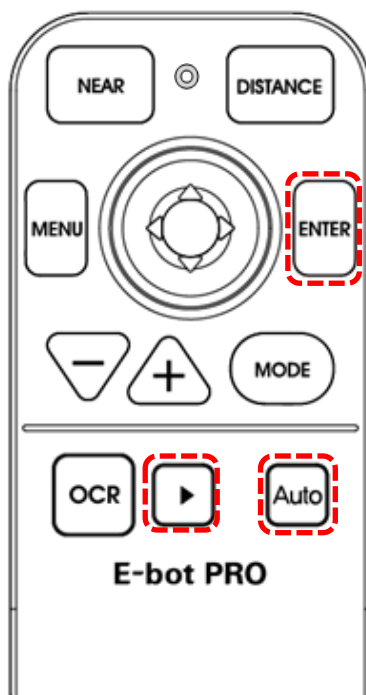
Recognizes text under the camera when using Near View mode and reads it aloud with built-in Text-To-Speech voices. Use the OCR button and Play / Pause button in the manner shown below:



- OCR button: 1) OCR execution
OCR button: 2) OCR Exit
 - Play / Pause button: OCR Play / Pause
- OCR button and Play / Pause button are colored green.

6.12 Auto Scroll

You can use the Auto Scroll function to move the camera in the set direction automatically as you read material. To execute Auto Scroll, press the Auto Scroll button on the Wireless Controller. Once Auto Scroll starts, the “AUTO” icon is displayed on the upper right corner of the screen. To stop auto scrolling, press the Auto Scroll button again. Auto Scroll automatically stops when E-bot PRO has read through the entirety of the text.



- Play / Pause Button: Start/Stop the Auto Scroll
- Enter Button: Line Feed
(Please refer to section “6.14 Line Feed”)

※ **Note:** Auto Scroll is only available in the Near View mode.

6.13 Save

E-bot PRO can save photo images and OCR recognition files via an SD card. Before using the storage function, you must insert an SD card. If an SD card is not inserted, you are alerted that you need to insert one.



Press the Play/Pause button on the Wireless Controller for more than 2 seconds when the image you want to save is displayed. The image file is saved as "Image_000000" .

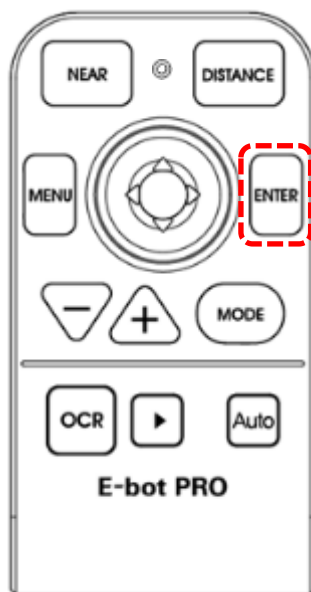


Press the Play/Pause button on the Wireless Controller for more than 2 seconds when the OCR result you want to save is displayed. The OCR result file is saved as "OCR_000000" .

6.14 Line Feed

If you press the Enter button on the Wireless Controller, the camera scrolls forward one line and returns to the beginning position. The scroll direction is determined by

the “Set Direction” option.

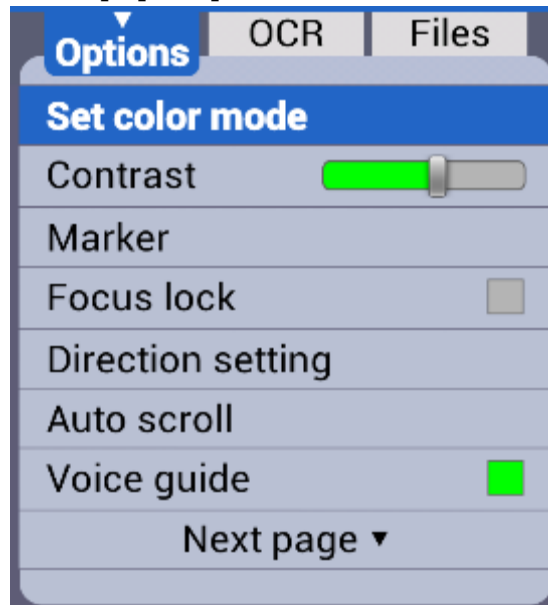


For example, if the direction is set to “Vertical” , this function returns the camera to the top of the page and the Line Feed moves one line to the left. If the direction is set to “Horizontal” , it returns the camera to the left position and the Line Feed moves the camera down one line. This function is only available in the Near View mode.

7. Advanced features

7.1 Using the menu

- ① Menu: Press the Menu button on the Wireless Controller and a menu window pops up on the left side of the screen.



- ② Tabs: The menu consists of three tabs, 'Options', 'OCR' and 'Files'. You can set the options related to magnification functions in the 'Options' tab, and can set the options related to OCR functions in the 'OCR' tab. The 'Files' tab allows you to control your saved images and OCR recognition files.

You can move between the Tabs by moving the Joystick left and right.

You can move through options in a tab by moving the Joystick up and down. To select an Item, press the Enter button.

- ③ Moving back a level: to move back a level in the menu structure, press the Menu button.
- ④ Closing the Menu: To close the menu, press the Menu button from the top level of the menu structure.

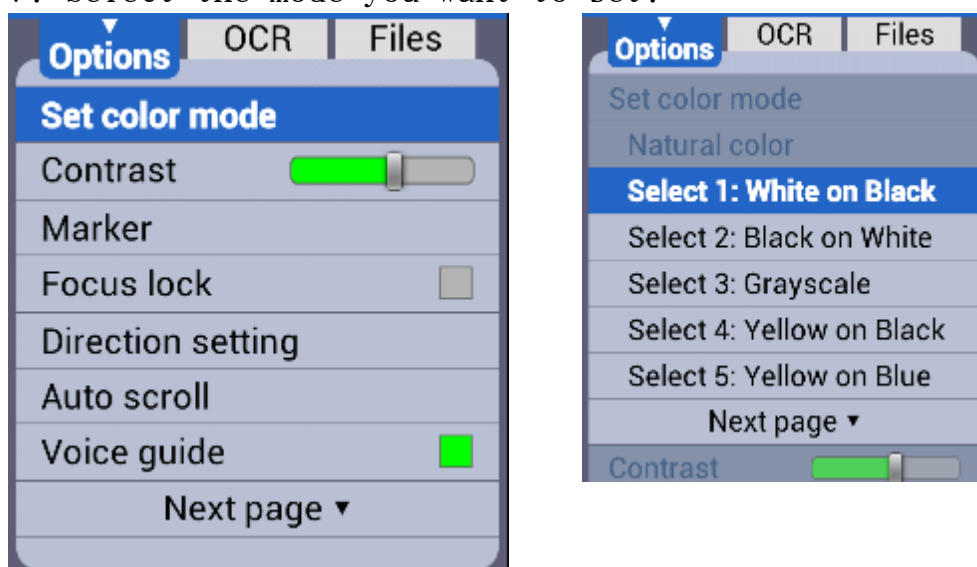
7.2 Color Mode Settings

You can set the color mode to best accommodate your visual condition or the material you are reading. You can also disable color modes that are not useful to you.

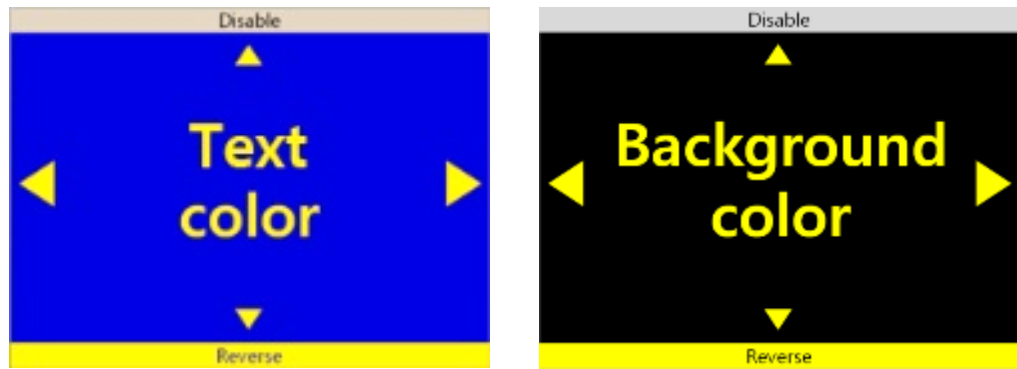
7.2.1 Setting the color mode

You can adjust the color modes to frequently-used color combinations except for Natural color mode. Up to 7 color modes can be adjusted in the options settings.

- ① Bring up the menu by pressing the Menu button on the Wireless Controller while using the view in which you want to change. (for instance, if you bring up the menu while using the Near View, the Color mode of the Near View is changed)
- ② You can modify the Color modes by choosing the “Set color mode” setting in the Options tab of the menu.
- ③ You can modify any of the color modes numbered 2 to 7. Select the mode you want to set.



- ④ The text color is displayed on the screen. Select the color of the text using the Joystick and press the Enter button on the Wireless Controller.



The text color and background color being displayed are exchanged when the “Reverse” is activated.

- ⑤ Select the Background color when you have finished selecting the text color. Use the same method as when setting the text color.

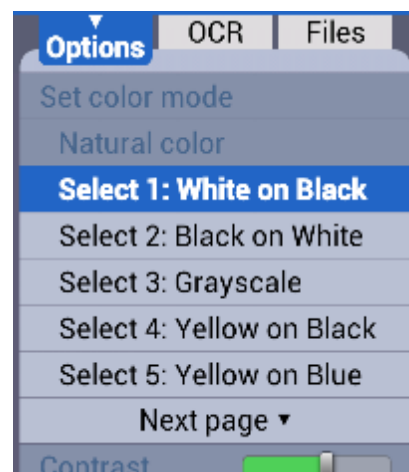
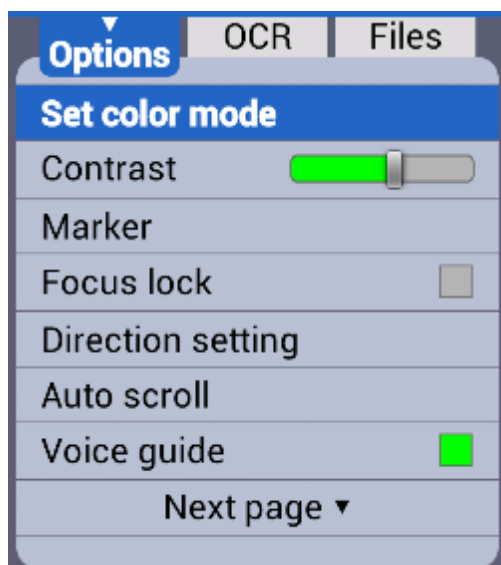
If Grayscale is chosen when selecting the text color, the Color setting mode is exited without selecting a Background color.

- ⑥ After you have selected the Background color, you are returned to the menu window.
- ⑦ To close the menu, press the Menu button.

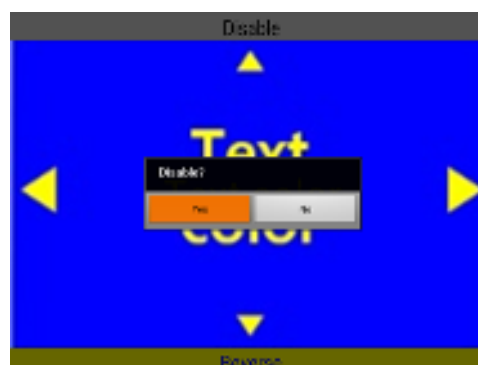
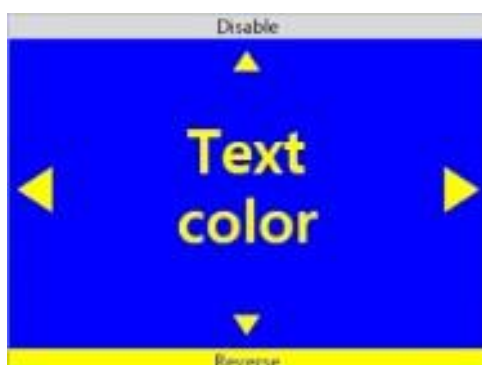
7.2.2 To disable color modes

You can disable color modes that are not useful to you so that you may cycle through useful color modes more quickly.

- ① Bring up the menu by pressing the Menu button on the Wireless Controller, go to the Options tab, then select “Set color mode”.
- ② Select one of the color modes numbered 2 to 7.



- ③ If you move the Joystick up when “Text color” is displayed, a window appears asking whether to disable the current Color mode. Choose ‘Yes’ to disable the Color mode or ‘No’ to cancel.



- ④ When you have made your selection, you are returned to the menu.
- ⑤ To close the menu, press the Menu button.

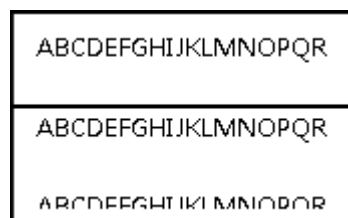
※ **Note:** Natural color mode and the first color mode cannot be disabled.

7.3 Markers

The Markers help you to focus on the text that you are reading by narrowing the display area with window markers or by underlining the sentence that you are reading.

7.3.1 Set Marker

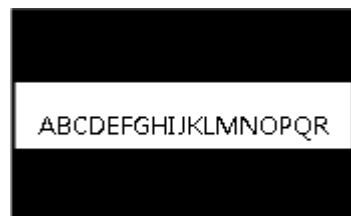
There are 4 types of markers; Horizontal Line Marker, Vertical Line Marker, Horizontal Window Marker and Vertical Window Marker.



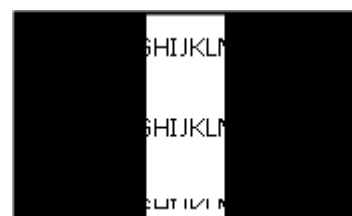
Horizontal Line Marker



Vertical Line Marker

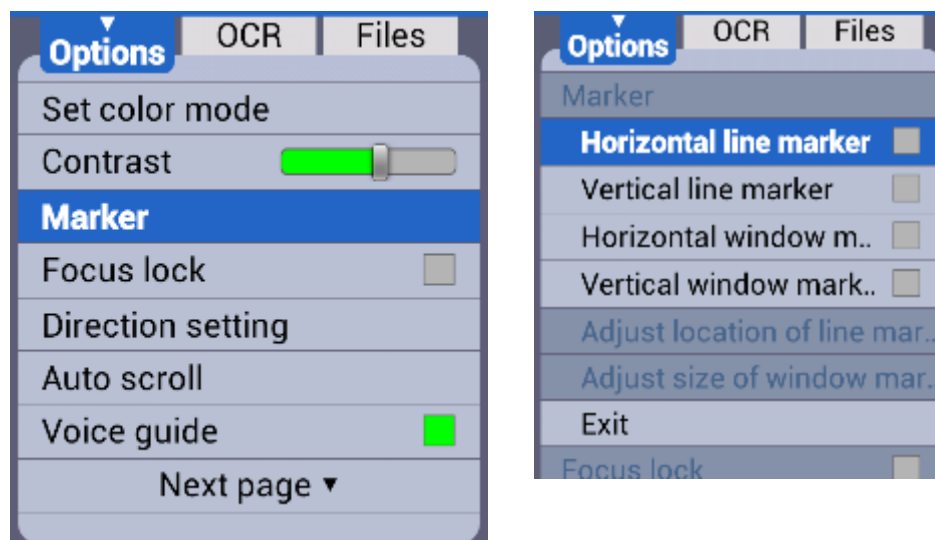


Horizontal Window Marker



Vertical Window Marker

- ① Bring up the menu by pressing the Menu button on the Wireless Controller, and select “Marker” .
- ② Next, select the marker type; “Horizontal Line Marker” , “Vertical Line Marker” , “Horizontal Window Marker” , “Vertical Window Marker” . A check mark appears next to the selected marker.



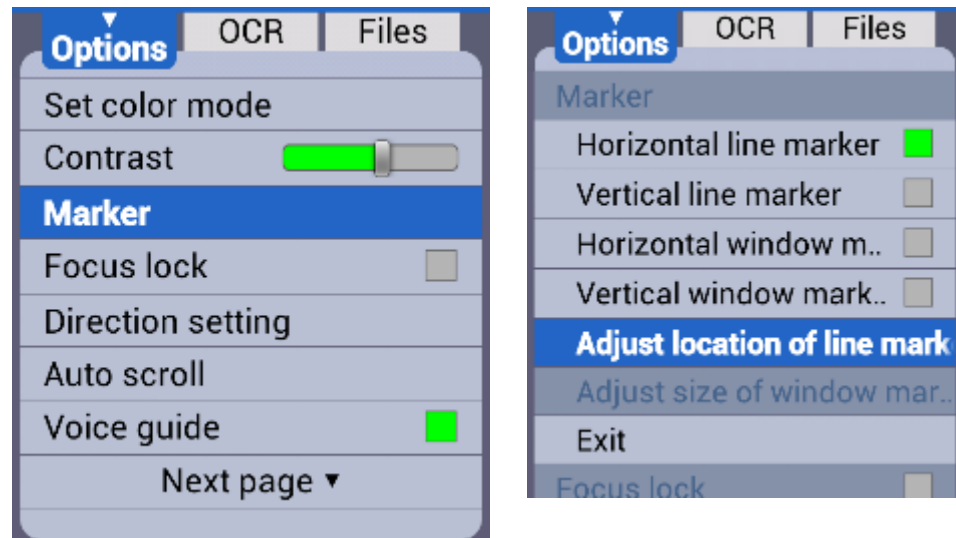
- ③ After you have chosen the marker setting, the selected marker is displayed on the screen and you are returned to the menu again.
- ④ To close the menu, press the Menu button.

※ **Note:** Select the marker setting from the menu again to disable the marker.

7.3.2 Adjust Marker Location and Size

You can adjust the size of the window marker and location of the line marker.

- ① Bring up the menu by pressing the Menu button on the Wireless Controller, then select “Marker”.
- ② If the line marker is selected, the “Adjust location of line marker” option appears. If the window marker is selected, the “Adjust size of window marker” option appears. Select the relevant marker setting.



- ③ Use the Joystick to adjust the location or size.
- ④ Press Enter button, and the setting is saved and you are returned to the menu.
- ⑤ To close the menu, press the Menu button.

7.4 OCR

When using Near View, the image freezes when the OCR button on the Wireless Controller is pressed. The text displayed on the frozen screen is recognized then read aloud using the voice.

※ **Note:** While recognition is being performed, a message indicating recognition is in progress appears. If using a color mode, the screen displays the natural color shortly before displaying the message. Please do not perform other functions while recognition is in progress.

7.4.1 Scanning

Press the Play/Stop button to stop and start reading text aloud, if the Play/Stop button is pressed after text reading has completed, reading begins again from the beginning of the text.

Press the OCR button again to exit the OCR function and return to live camera view.

※ **Note:** If the magnification level, color mode or contrast is changed while reading recognized text, the changed magnification level, color mode or contrast is not announced, though it is displayed on the screen. When reading is paused, you will receive both audio and visual verification.

※ **Note:** If the magnification level is changed while reading recognized text, the highlighted text is focused. Adjusting magnification level in the OCR view does not change the magnification level in the live camera view. However, if the OCR view is set to Image, the magnification level cannot be adjusted below the magnification level that was set when OCR was first initiated.

※ **Note:** You may change the Color mode by using the Mode button when viewing an OCR result. If you change the color in the OCR view, it remains the same when you switch back

to the live camera view. The available color modes are the same as those available in the Near View mode.

✳ **Note:** You may adjust the Contrast by pressing the Enter button and Zoom In/Out button simultaneously on the Wireless Controller when viewing an OCR result. The default value of contrast is always 20 and you may adjust it from 1 to 40. However, you cannot change the value of contrast in the natural color mode.

If you change the contrast value in the OCR view, it remains the same when you switch back to the live camera view.

✳ **Note:** In OCR view, only OCR-related options are available in the menu; including: “OCR Field Selection”, “OCR View”, “Voice Settings” and “OCR Correction”.

7.4.2 Continuous Scanning

The Continuous Scanning function automatically captures all the material under the camera viewing area every 10 seconds, and saves it to a single file. This can be useful if you wish to scan an entire book or handout with multiple pages that you want stored together as 1 continuous text.

Press the OCR button on the Wireless Controller to enter the OCR full-screen preview mode.

✳ **Note:** Press the play / pause button on the Wireless Controller for 2 seconds or more to start Continuous Scanning.

✳ **Note:** all of the images from a continuous scan are stored together in sequence.

✳ **Note:** image and text file names are identified with the word “full” to let you know the scan contains multiple pages. Thus, a result text file name will resemble “OCR_000005_full.txt”.

✳ **Note:** The shooting area for OCR in Continuous Scanning is automatically set to full screen OCR. Please refer to '5.3.6 OCR zone settings.

7.4.3 Reading/Navigating recognized Text

Move the Joystick to the Right to move to the next sentence.

Move the Joystick to the Left to move to the previous sentence.

Move the Joystick Down to move to the next paragraph.

Move the Joystick Up to move to the previous paragraph.

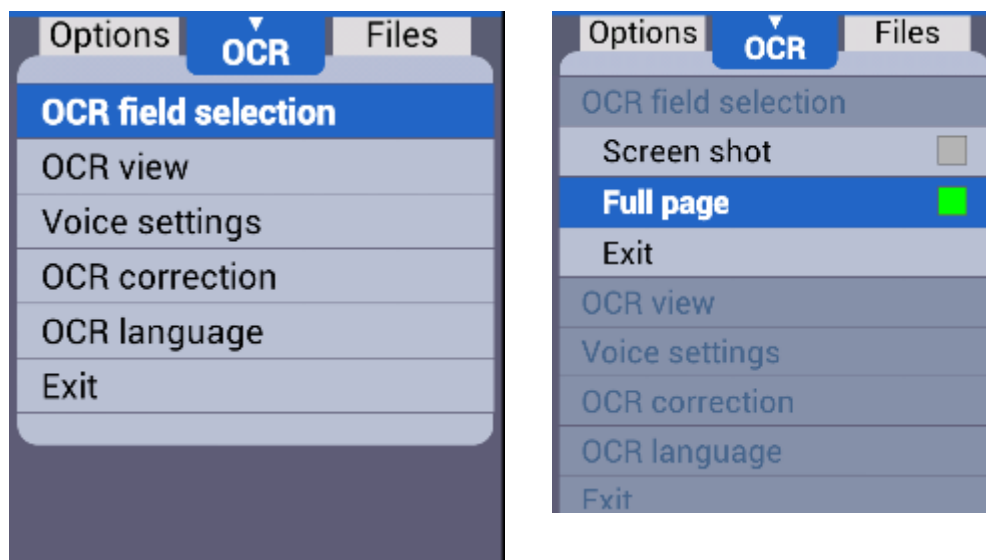
Navigate to the place where you want to begin reading text aloud and press the Play/Stop button to begin reading at that point.

✱ **Note:** When reading is paused, if you navigate to a text element such as sentence or paragraph, only that element is read aloud. If you navigate while text is being read aloud, text begins reading at the point of your navigational movement. Reading text continues until it reaches the end or navigates again after pause.

7.4.4 OCR Field Selection

Set the OCR field according to the text area you want to recognize and read aloud.

- ① Bring up the menu by pressing the Menu button on the Wireless Controller then move the Joystick to the right to move to the OCR tab and select “OCR Field Selection” .



- ② There are 2 options for selecting the area on which to perform OCR: “Screen Shot” and “Full Page”. The “Screen Shot” option performs OCR on the text currently displayed on the screen. The amount of text will vary according to magnification level, etc. The Full page option captures and recognizes a standard 8.5 x 11” page of text.
- ③ The current setting is indicated with a check mark. Select your desired area for OCR.

✳ **Note:** By default, this option is set to Screen shot.

- ④ To close the menu, press the Menu button.

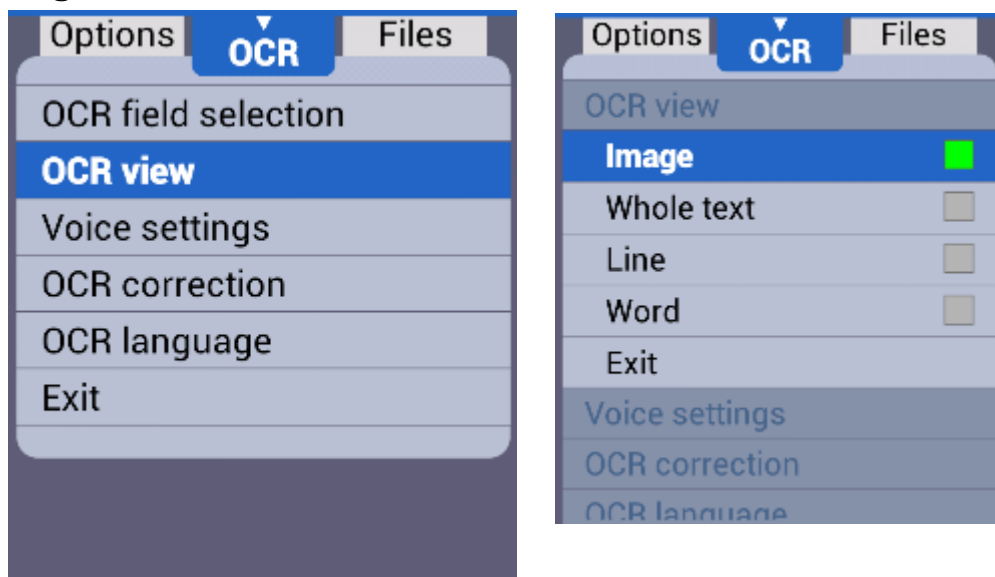
✳ **Note:** If your field selection is set to Full Page, when you press the OCR button, the Secondary Camera shows the image on the screen. Press the OCR button again to capture the image.

✳ **Note:** When the Secondary Camera shows the image on the screen, the main LED is automatically turned off and secondary LED is turned on and pressing the light button only changes the status of the secondary LED.

7.4.5OCR Views

You may display OCR result as either an image, or as recognized text.

- ① Bring up the menu by pressing the Menu button on the Wireless Controller then move the Joystick to the right to move to the OCR tab and select “OCR View” .



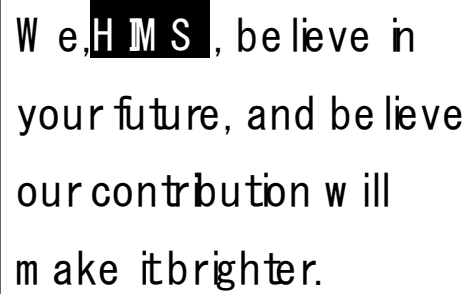
- ② There are 4 options for displaying OCR results. The current setting is indicated with a check mark. Select your desired view for OCR results.

※ **Note:** the default OCR view is Image

- Image: Displays scanned image, highlights word being read aloud.

We, **HMS**, believe in
your future, and believe
our contribution will
make it brighter.

- Whole Text: Extracts recognized text and shows it on the screen.

A screenshot of a text box in OCR Line mode. The text "We, HMS, believe in your future, and believe our contribution will make it brighter." is displayed. The words "HMS" are highlighted with a black background and white text, indicating the current line being read aloud.

We, HMS, believe in
your future, and believe
our contribution will
make it brighter.

- Line: Extracts recognized text and shows the line currently being read aloud.

A screenshot of a text box in OCR Word mode. The text "We, HMS, believe in" is displayed. The word "HMS" is highlighted with a black background and white text, indicating the current word being read aloud.

We, HMS, believe in

- Word: Extracts recognized text and shows each word as it is read aloud on the screen.

A screenshot of a text box in OCR Character mode. The text "HMS," is displayed. The characters "HMS," are highlighted with a black background and white text, indicating the current character being read aloud.

HMS,

- ③ Press the Enter button, and the setting is saved.
- ④ To close the menu, press the Menu button.

7.4.6 Switching OCR mode to Preview mode

While using OCR, you can return to the live camera view.

- ① To do this, press the Enter button and OCR button simultaneously on the Wireless Controller. The message “Preview mode” is displayed and spoken. The icon appears on the top right of the screen.



- ② To return to the OCR mode, press the Enter button and OCR button together again. The message “OCR mode” is displayed and spoken.

※ **Note:** You cannot access the menu in this mode, you can only adjust camera movement and magnification.

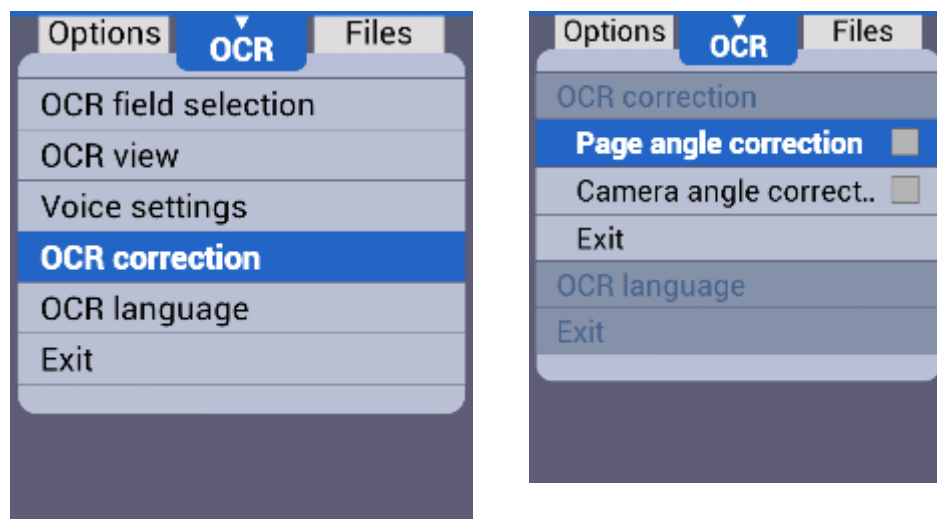
7.4.7 OCR Correction

The OCR Correction function corrects the orientation of the text if it is not aligned correctly for more accurate text recognition. You can turn this option on or off. There are 2 options for correcting OCR results.

- Page angle correction: To rotate a scanned image to compensate for skewing.
- Camera angle correction: To rotate a scanned image in three dimensions to compensate for skewing.

※ **Note:** Both options are unchecked by default.

- ① Bring up the menu by pressing the Menu button on the Wireless Controller, and move the Joystick to the right to move to the OCR tab, and then select the “OCR correction”. Select the “Page angle correction” or “Camera angle correction” item.

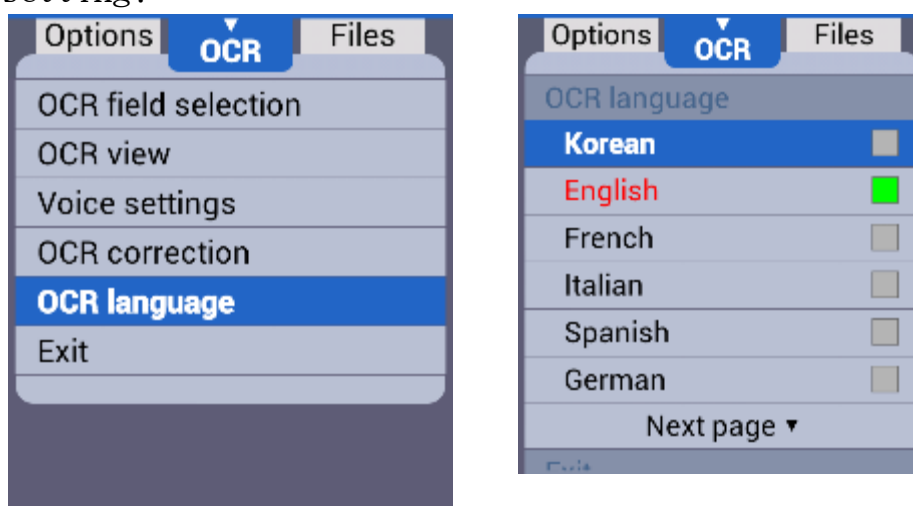


- ② To close the menu, press the Menu button.

7.4.8 Setting OCR Language

This feature distinguishes and recognizes up to 2 different languages even if they are mixed on the screen.

- ① Bring up the menu by pressing the Menu button on the Wireless Controller and move the Joystick to the right to move to the OCR tab. Then, select the OCR language setting.



- ② Select the language you want to add. E-bot PRO can recognize up to 2 languages simultaneously.
- ③ To close the menu, press the Menu button.

※ **Note:** If the main language is not English and English

is not set as the 2nd language, the voice used for the main language reads English texts

✖ **Note:** The language chosen in the Language of Options tab is automatically set to be main OCR language (colored red) and it cannot be unchecked.

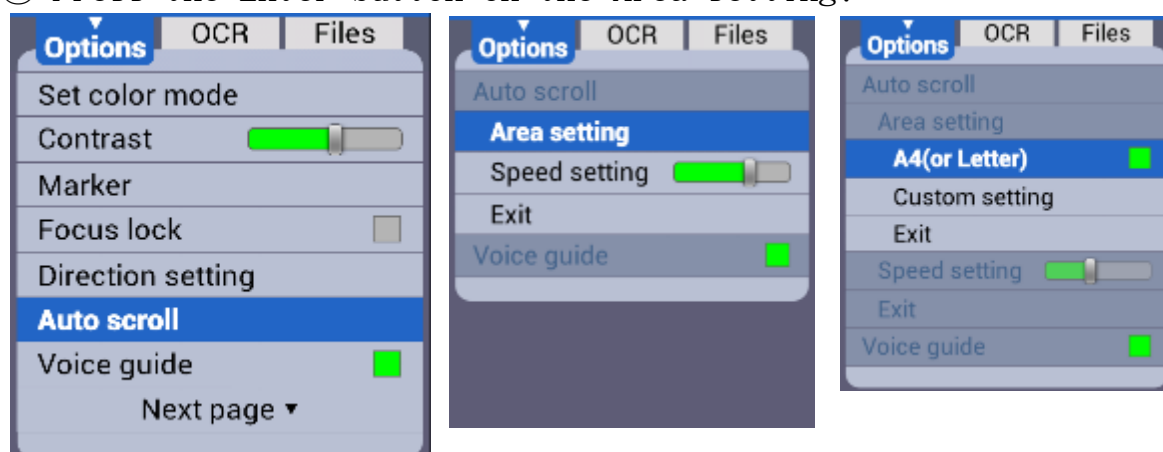
✖ **Note:** The language recognition is distinguished by paragraph if the selected language is based on Alphabet.

7.5 Auto Scroll

7.5.1 Area Setting

The range setting allows you to specify the size of the page you are viewing/scrolling.

- ① Press the Menu button on the Wireless Controller, navigate to the Auto Scroll menu, and then press the Enter button.
- ② Press the Enter button on the Area setting.



- ③ You can select the A4 (Letter) or custom setting.

※ **Note:** The default setting is A4.

- ④ To use the Custom setting, press the Enter button on the Custom setting. Then you can set the start position and end position by using the Joystick and Enter button.
- ⑤ To close the menu, press the Menu button.

※ **Note:** To use the Custom settings, please turn off the A4 option.

※ **Note:** After rebooting, this setting returns to its default of A4.

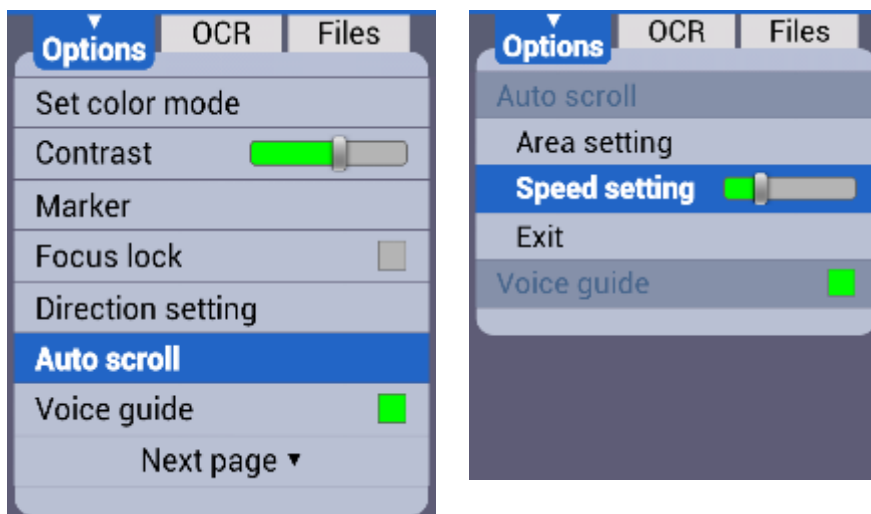
7.5.2 Speed Setting

The Speed setting lets you control how fast the camera scrolls through the document.

- ① Press the Menu button on the Wireless Controller,

navigate to the Auto Scroll menu, and then press the Enter button.

- ② Press the Enter button on the speed setting.



- ③ Set the speed moving the Joystick to the left or the right, and press the Enter button.
- ④ To close the menu, press the Menu button.

7.5.3 Direction Setting

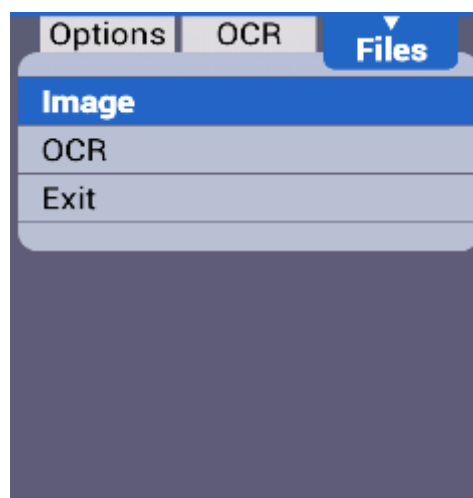
If horizontal is set in the Direction setting, the camera scrolls from the left to the right and moves line by line down the page. If vertical is set, the camera scrolls from up to down and moves line by line Right to Left across the page.

※ Note: The default direction setting is horizontal.

7.6 Finding & Deleting saved Files

7.6.1 Images

- ① To access saved images, bring up the menu by pressing the Menu button on the Wireless Controller and select “Image” from the “Files” tab.

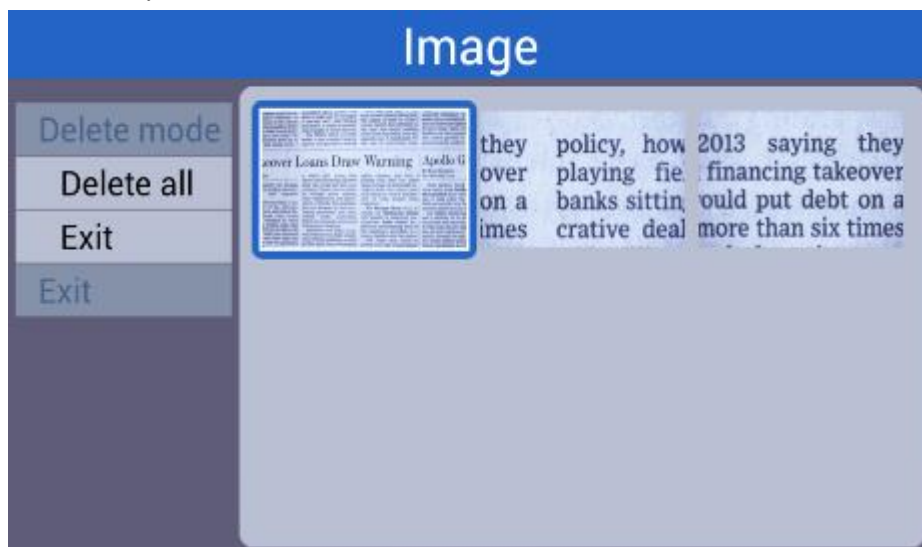


- ② Then press the Enter button on the “View Images” menu in the “image” section of the “Files” tab.



- ③ The saved Image files are displayed as thumbnails. You can see each image in full screen by pressing Enter on the image you want to view.
- ✱ **Note:** You may also view the OCR result by pressing the OCR button while viewing an Image in the full screen.
- ④ To delete the image, select the “Delete mode” menu in the “Image” section of the “Files” tab.
- ⑤ You can delete images in 2 ways: each image or all images. Press the Enter button on each image to delete or just select “Delete all” to delete all images.
- ⑥ To view the image before deleting it, press the Zoom

In button. To close the image viewing, press the Zoom Out button.

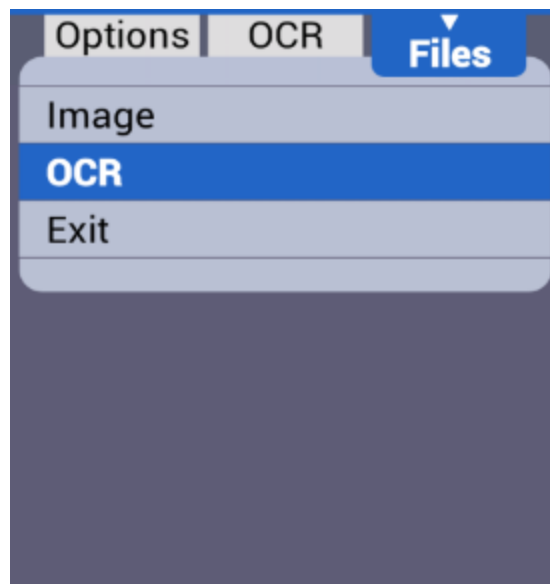


⑦ To close the menu, press the Menu button.

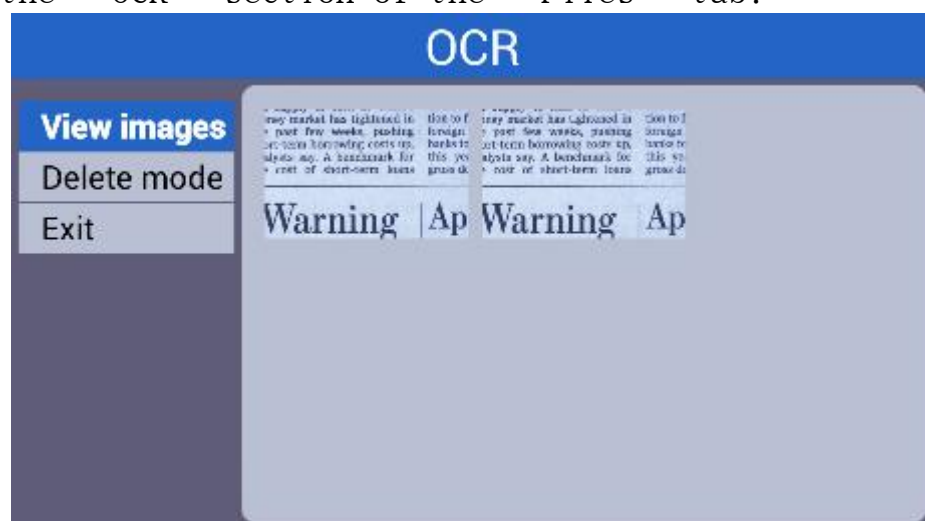
✱ **Note:** If you have images stored on the SD card from other devices, you can view these images with E-bot PRO

7.6.2 OCR Recognition files.

- ① To access recognition files, bring up the menu by pressing the Menu button on the Wireless Controller and select “OCR” from the “Files” tab.

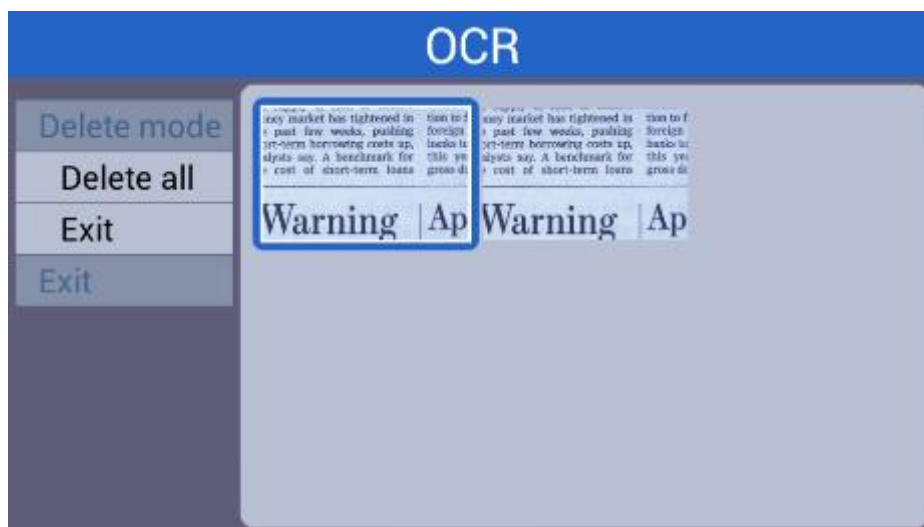


- ② Press the Enter button on the “View Images” menu in the “OCR” section of the “Files” tab.



- ③ The saved OCR recognition files are displayed.
- ④ To delete the OCR recognition files, select the “Delete mode” menu in the “OCR” section of the “Files” tab.
- ⑤ Press Enter on each OCR recognition file to delete or just “Delete all” to delete all OCR recognition

files.



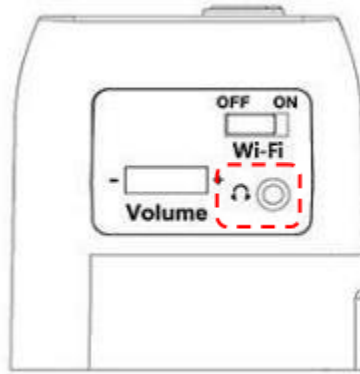
- ⑥ To view the OCR recognition file before deleting, press the Zoom In button. When you are finished viewing, press the Zoom Out button.
- ⑦ To close the menu, press the Menu button.

※ **Note:** Both OCR results and Saved images cannot be open if size of the file is 0 or file is not existing. But they may be displayed on the list.

8. Preferences

8.1 Using Headphones

You can listen to the voice in a public place or classroom without disturbing others by using the headphones.



✱ **Note:** Use only standard headphones. Headsets with built-in microphones, such as Apple earbuds, will not work with E-bot PRO.

8.2 Voice Guide

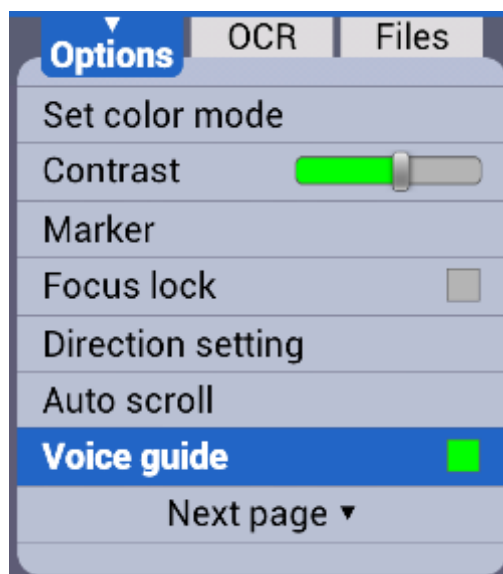
This option determines whether E-bot PRO speaks as you navigate menus or press buttons.

The TTS settings (Volume, Speed, Pitch, and Voice) control both the settings of the guide voice as well as the OCR reading voice.

8.2.1 Voice Guide On/off

- ① Bring up the menu by pressing the Menu button on the Wireless Controller and select “Voice guide” from the “Options” tab
- ② If the checkbox is checked, the voice guide is on; if it is not checked, voice guide is off. Press the Enter button to change the setting.

✱ **Note:** the default setting is checked

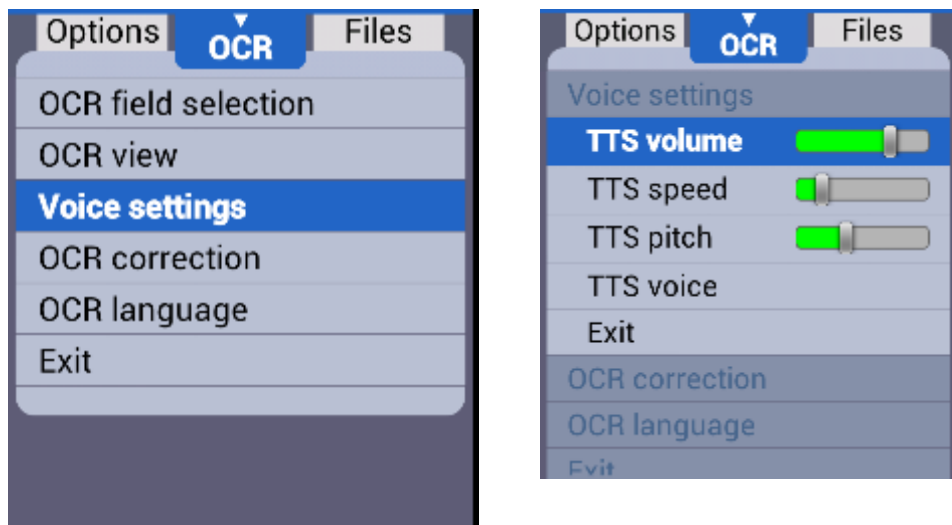


③ To close the menu, press the Menu button.

※ **Note:** You may also press the Menu button on the Wireless Controller for more than 2 seconds to turn the voice guide On/Off.

※ **Note:** Even if you turn off the Voice guide, OCR result still read aloud via the Text-To-Speech voices.

8.2.2 TTS Volume



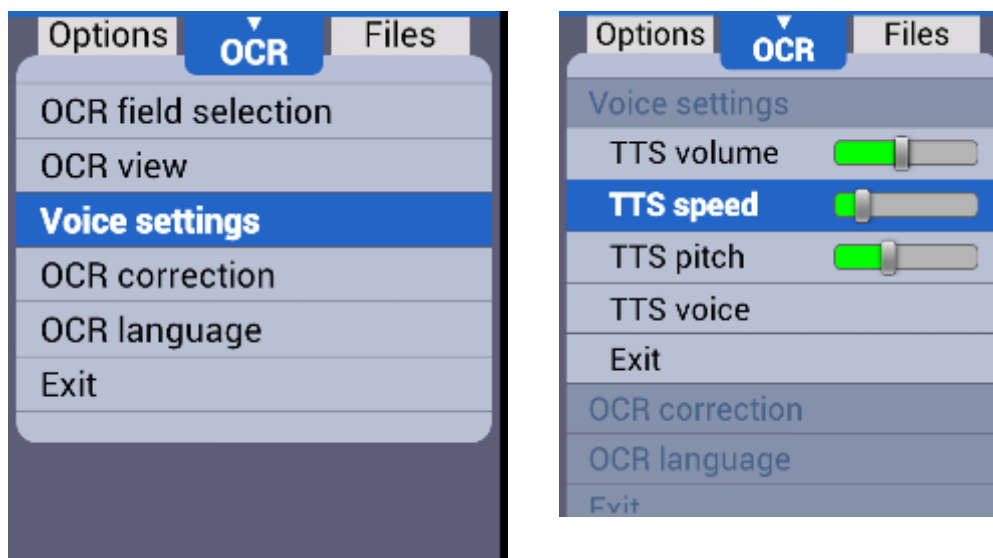
- ① Bring up the menu by pressing the Menu button on the Wireless Controller, and select “TTS Volume” in the “OCR” tab.
- ② You can select from among 16 volume levels. Use the Joystick to choose your desired volume level, and then press Enter to save the settings. You can mute the volume by setting the level to 0.

✳ **Note:** The default level is 7.

- ③ Then press Enter to save the setting.
- ④ To close the menu, press the Menu button.

8.2.3 TTS Speed

- ① Bring up the menu by pressing the Menu button on the Wireless Controller, and select “TTS speed” from the OCR tab.



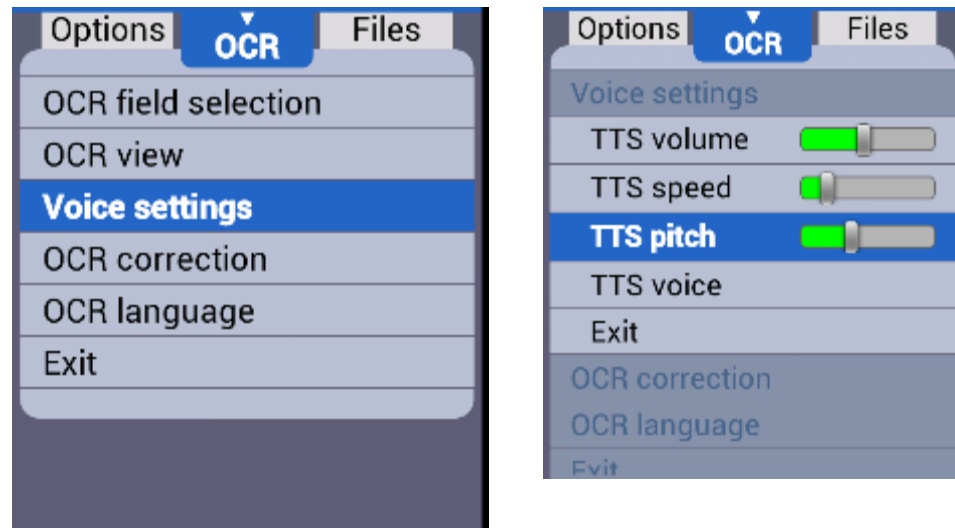
- ② The TTS speed is adjustable among 14 levels. Use the Joystick to adjust the speed of the TTS then press the Enter button to save the setting.

※ Note: The default level is 3.

- ③ To close the menu, press the Menu button.

8.2.4 TTS Pitch

- ① Bring up the menu by pressing the Menu button on the Wireless Controller, and select “TTS pitch” from the “OCR” tab.



- ② The TTS pitch can be adjusted among 15 levels. Use the Joystick to control the pitch of the TTS then press the Enter button to save the setting.

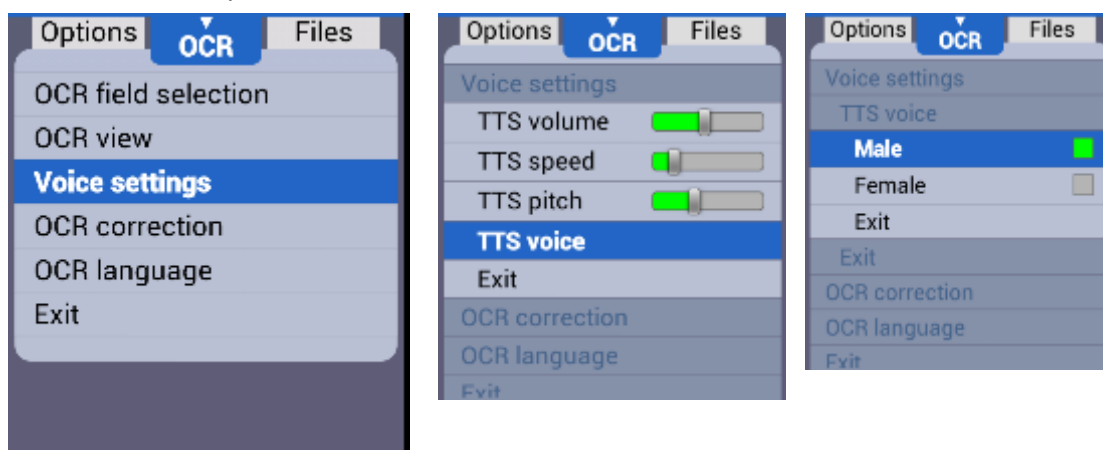
✱ **Note:** The default level is 6.

- ③ To close the menu, press the Menu button.

8.2.5 TTS voice

Use this setting to select the gender of the voice.

- ① Bring up the menu by pressing the Menu button on the Wireless Controller and select “TTS Voice” from the “OCR” tab.
- ② Use the Joystick to select between the Male and Female voice.



- ③ Then press the Enter button to save the setting
- ④ To close the menu, press the Menu button.

※ **Note:** the default voice is male.

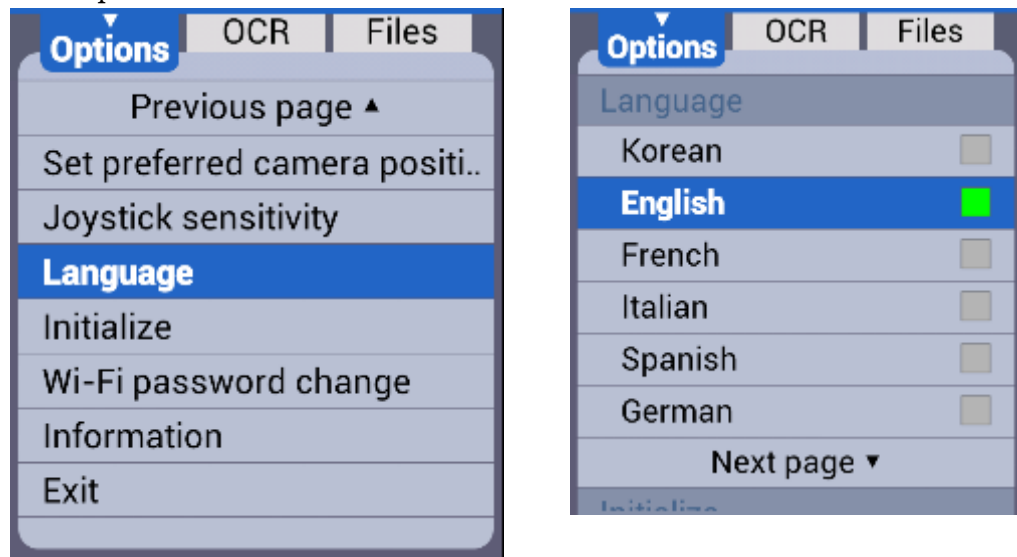
※ **Note:** among the main languages, only the female voice is supported in the below languages

– Catalan, Finnish, French(Canada), Portuguese, Portuguese(Brazil), Czech, Greek, Polish, Turkish, Chinese

8.3 E-bot PRO Operating Language

You can change the basic language E-bot PRO uses for its voice guide and menu system.

- ① Bring up the menu by pressing the Menu button on the Wireless Controller and select “Language” from the “Options” tab.



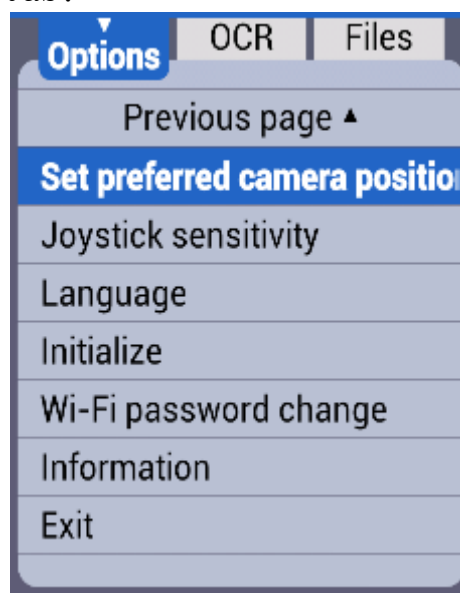
- ② Navigate to the language you wish to use with the Joystick, and press the Enter button on your chosen language.
- ③ To close the menu, press the Menu button.

※ **Note:** Changing the language in this menu also changes the OCR language. Though main and secondary OCR languages are already set, if the language in this menu changes, the main OCR language is set to the language in this menu.

8.4 Set Preferred Camera Position

You can set your favorite positions for the camera in the Near/Distance View mode, and automatically move the camera to the saved point.

- ① In the Near/Distance View mode, bring up the menu by pressing the Menu button on the Wireless Controller and select “Set preferred camera position” from the “Options” tab.



- ② Place the camera in the location you want to save, and then press the Enter button.
- ③ To close the menu, press the Menu button.
- ④ After the position is set, if you press the Near button in the Near View or press the Distance button in the Distance View, the camera automatically goes to the set position.

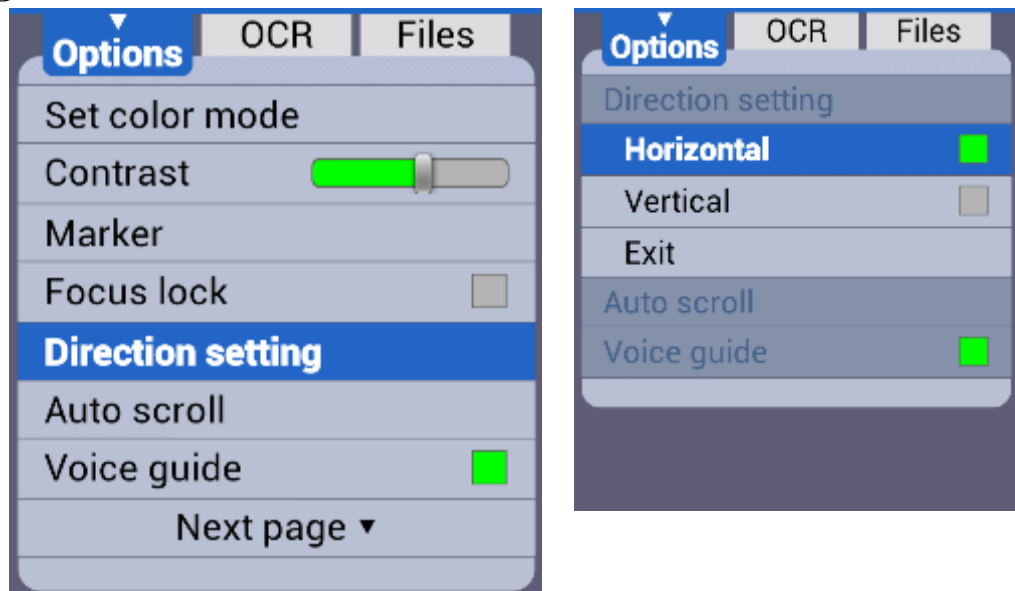
※ **Note:** If you try to set the preferred camera position when using magnification levels 1 to 4, the camera cannot move to the left or right.

8.5 Set the Camera Direction

The camera direction setting lets you set the direction that the camera moves when activating the Auto Scroll and Line

Feed functions while viewing a document.

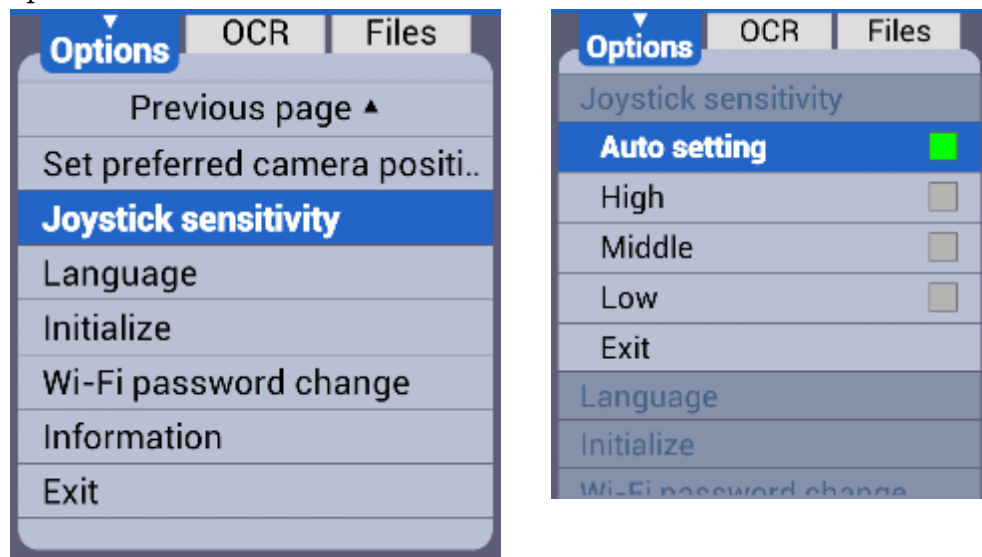
- ① Press the menu button on the Wireless Controller.
- ② Select “Direction setting” from the “Options” tab.
- ③ Choose between Vertical or Horizontal.



- ④ To close the menu, press the Menu button.

8.6 Joystick Sensitivity

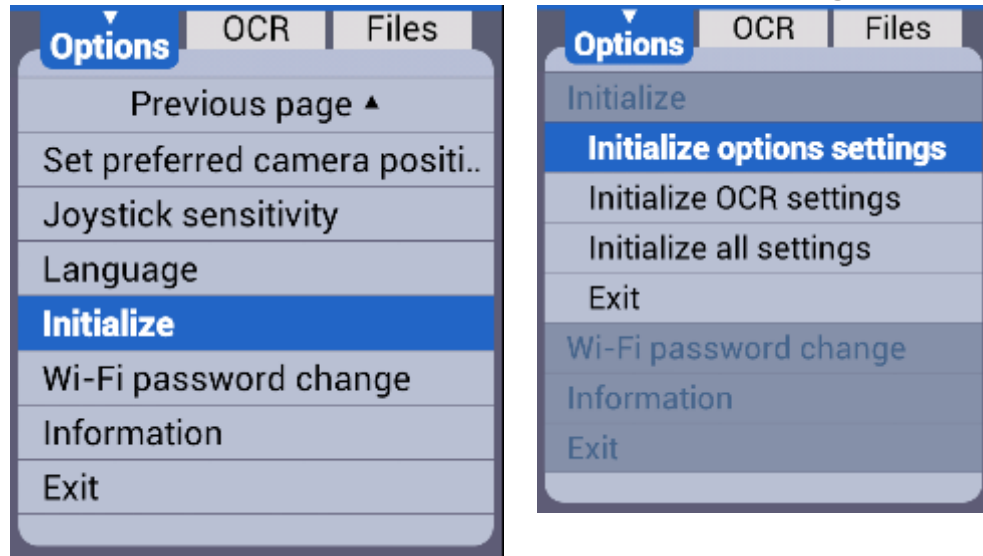
- ① Bring up the menu by pressing the Menu button on the Wireless Controller and select “Joystick sensitivity” from the “Options” tab. There are 4 options for Joystick sensitivity: Auto setting, High, Middle and Low.
- ② Navigate to the option you wish to use with the Joystick, and press the Enter button on your chosen option.



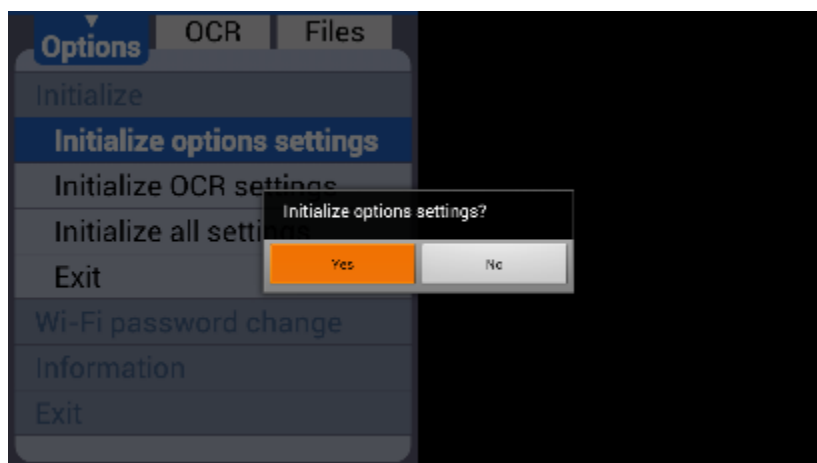
- ③ To close the menu, press the Menu button.
- ④ If you select the Auto setting, speed will vary depending on the slope of a Joystick. When set to “High” , “Middle” or “Low” , scrolling occurs at the set speed regardless of the tilt of the Joystick.

8.7 Initialization

- ① Set the settings back to the factory defaults.
- ② Bring up the menu by pressing the Menu button on the Wireless Controller and Select “Initialization” from the “Options” tab.
- ③ You can initialize settings in the “Options” tab, in the “OCR” tab, or initialize all settings.



- Initialize Options Settings: Initialize settings in the Options tab of the Menu.
 - Initialize OCR Settings: Initialize settings in the OCR tab of the Menu.
 - Initialize all settings: Initialize all settings including options tab and OCR tab settings.
- ④ Press the Enter button on your desired initialization option. A window appears asking whether to initialize the settings. Choose “Yes” to initialize the settings or “No” to cancel.

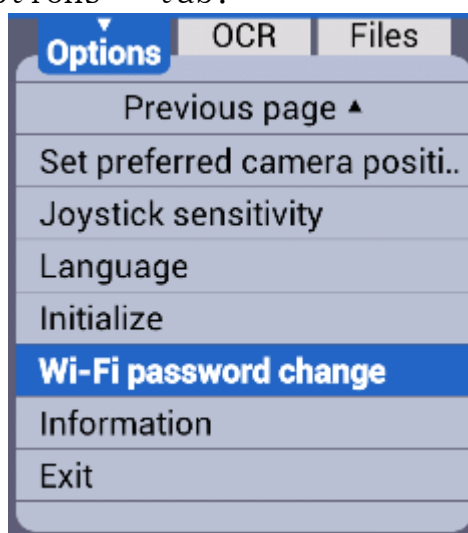


- ⑤ To close the menu, press the Menu button.

8.8 Wi-Fi Password Change

An eight -digit number is needed to connect E-bot PRO to Wi-Fi using an iPad, Android tablet or PC. The default password is “00000000” . To change the password, follow the instructions below:

- ① Bring up the menu by pressing the Menu button on the Wireless Controller and select “Wi-Fi password change” in the “Options” tab.



- ② A window asking for the current password appears. Input the password using the virtual keyboard on the screen.

Current password :



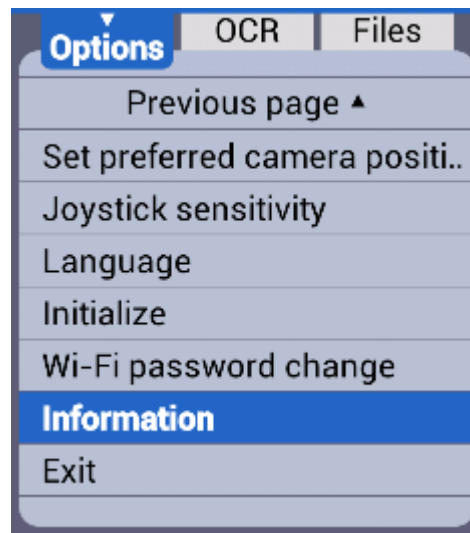
- ③ Please use the Joystick to navigate to the character you want to type, and press the Enter button to input the character. Input the current password and press the Enter on the virtual keyboard.
- ④ A window asking for the new password appears. Input the 8-digit password in the manner described above.
- ⑤ A window asking you to reconfirm the password to change appears. Input the new password again.
- ⑥ When you have finished the above steps, the new password is set.
- ⑦ To close the menu, press the Menu button.

※ Note: If the Wi-Fi password is incorrect or you have forgotten the Wi-Fi password, please initialize the option settings, and it will be returned to “00000000” .

8.9 Information

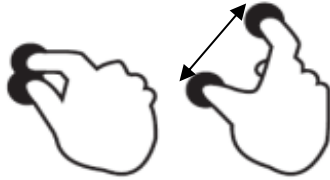


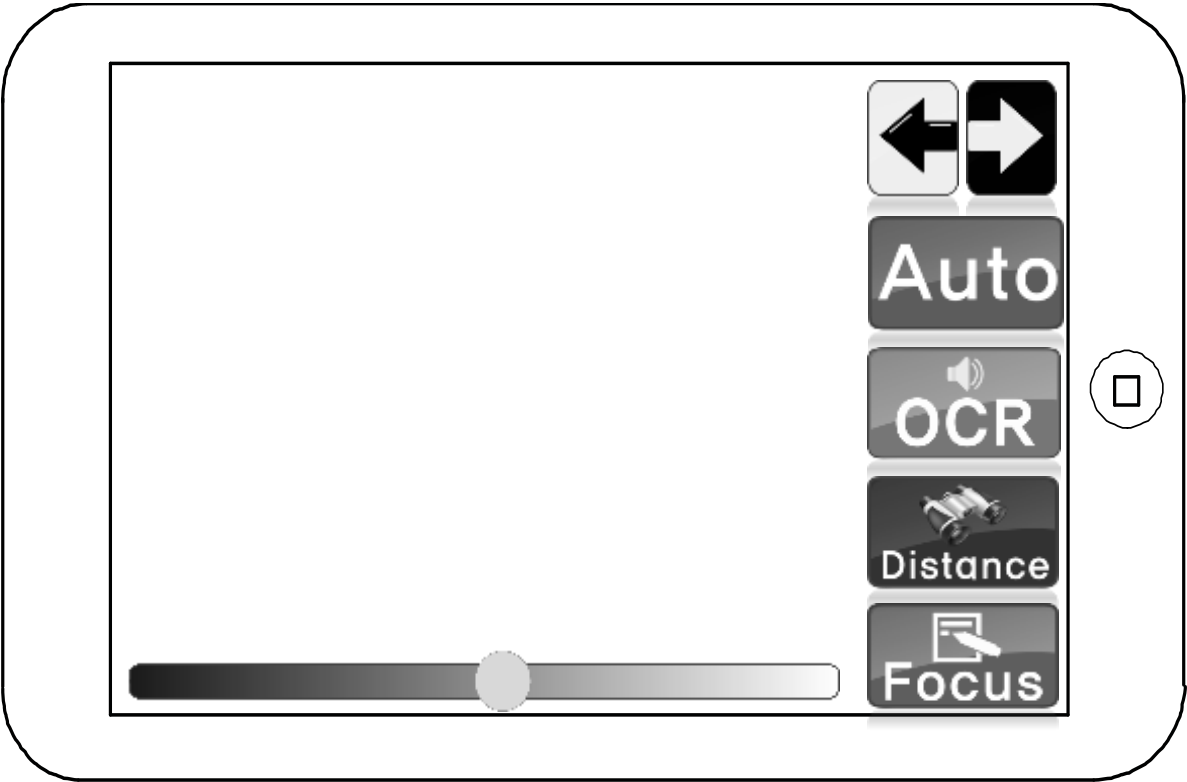
Use this option to check general information about the E-bot PRO.

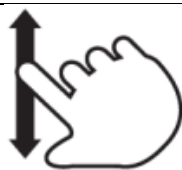

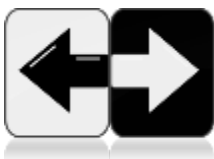



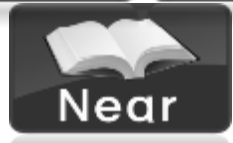
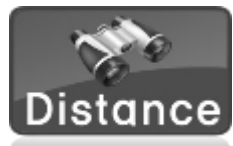


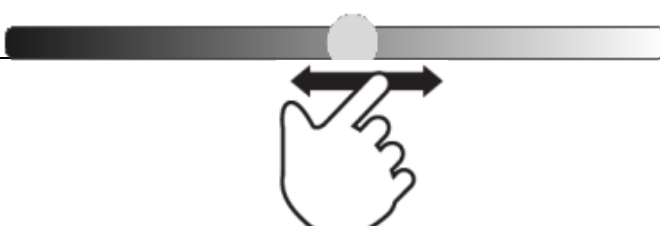
- ① Bring up the menu by pressing the Menu button on the Wireless Controller and select “Information” from the “Options” tab.




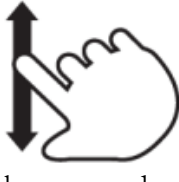

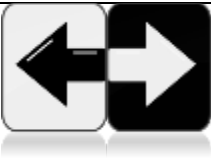


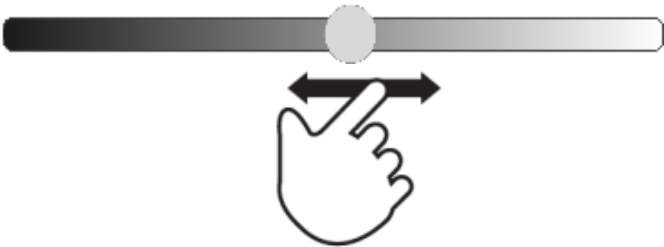




- ② You can check the following information about E-bot PRO:
 - Software version
 - Remaining battery, Battery charge status and whether the Battery is inserted
 - If the battery is not inserted, it displays “No battery”
 - If the battery is inserted and power is supplied, it displays “Charging xx%”
 - If the battery is inserted and power is not supplied, it displays “Charged xx%”
 - Wi-Fi Access Point
 - It is displayed as “Ebot_xxxx” .
- ③ To close the menu, press the Menu button.




9. Tablet Viewer Gestures

Functions		Tablet
		Gesture
Zoom In		 <p>Move fingers away from each other</p>
Zoom Out		 <p>Pinch fingers towards each other</p>
Control Menu	Open	 <p>One finger Tap on the right end of the screen and flick to left</p>
		


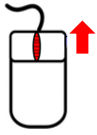

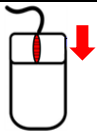
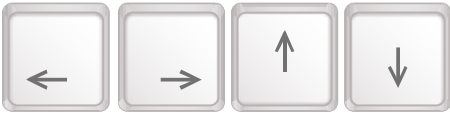
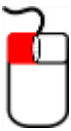



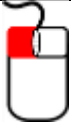



Control Menu	Move the Focus to the Icon	 One-finger Tap on the screen and flick to up or down	
	Execute the Option	 One finger double Tap on the screen when focus is on the icon	
	Previous/Next Color Mode		 One finger Tap on the icon
	OCR On/Off		
	Focus Lock On/Off		
	Near View Mode		
	Distance View Mode		
	Auto Scroll ON/OFF		
	Auto Scroll Pause/Play	 One finger tap on the screen (when Auto Scroll is On)	
Control Menu	Contrast		

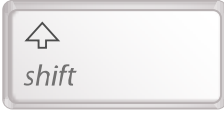













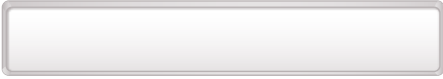



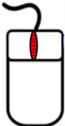
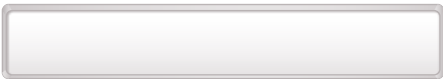
		One finger Tap and flick to left or to right on the bar
	Close	 <p>One finger Tap on the left end of the screen and flick to right</p>
OCR	Play/Pause	 <p>One finger tap on the screen</p>
	Move Sentence	 <p>One finger flick to left or to right on the screen</p>
	Move Paragraph	 <p>One-finger flick up or down on the screen</p>
	OCR Mode ↔ Preview Mode	 <p>In OCR mode, Two-finger Double-tap on the screen</p>
	Previous/Next Color Mode	 <p>On the control menu, One finger Tap on the icon</p>





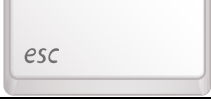



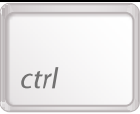



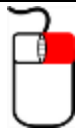


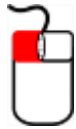


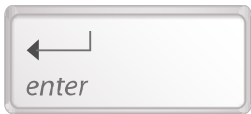
OCR	Contrast	 <p>On the control menu, One finger flick to left or to right on the bar</p>
	OCR Menu Open	 <p>One finger Tap on the left end of the screen and flick to right</p>
	OCR Menu Close	 <p>One finger Tap on the right end of the screen and flick to left</p>
Menu	Open	 <p>One finger Tap on the left end of the screen and flick to right</p>
	Move to the Tap	One finger Tap on the another tab icon
	Move an Item	One finger Tap on the wanted item
	Select / Set / Enter the Sub-Item	One finger Tap on the wanted item
	Save	One finger Tap on the confirm icon
	Cancel / Exit	One finger Tap on the cancel icon
	Close	 <p>One finger Tap on the right end of the screen and flick to left</p>


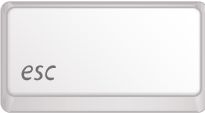


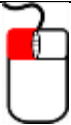



Moving Camera	 <p>One finger Tap and flick to desired direction</p>
Stop Moving Camera	 <p>Take off one finger from the screen</p>
Line Feed	 <p>One finger Double-tap on the screen</p>

10. Quick Guide to PC or Mac operations

Function	PC	
	Keyboard	Mouse
Zoom In		 Wheel Upwards
Zoom Out		 Wheel Downwards
Moving Camera		 Left-Click and Drag
Line Feed		
Find Position		-
Next Color		 Left-Click on the screen
Previous Color		-
Quick Color Change		-
Increase Contrast		-

Decrease Contrast		 + 	-
Focus Lock		 + 	-
Near View Mode		 + 	
Move to the Preferred Position (in the Near View mode)		 +  (in the Near View mode)	
Distance View Mode		 + 	
Move to the Preferred Position (in the Distance View mode)		 +  (in the Distance View mode)	
Auto Scroll	On/Off	 + 	
	Pause/Play		
TTS Speed	Decrease		
	Increase		
OCR	Execution		 Click Wheel
	Play / Pause		-

OCR	Next Sentence		-
	Previous Sentence		-
	Next paragraph		-
	Previous Paragraph		-
	Exit		-
	Open OCR Menu	(In OCR mode)  + 	 (In OCR Mode) Right-Click
	OCR Mode ↔ Preview Mode	 + 	-
Menu	Open	 + 	 Right-Click
	Move to the Tab	 or 	 Left-Click on the Item
	Move to the Item	 or 	
	Select Items / Save Settings		

Menu	Cancel Settings / Menu Close	 or  or  + 	 Left-Click the Exit Button or  Right-Click on the screen
Exit program		 + 	–

※ **Note:** When E-bot PRO is connected to PC, Mac, iPad or Android tablet, the Wireless Controller is not able to bring up or control the menus.

11. Trouble shooting

11.1 The E-bot PRO does not turn on when you press the Power button

- a. E-bot PRO's battery may be discharged. Please connect the power cable.
- b. Please be sure the monitor is powered on.
- c. Make sure the E-bot PRO is unfolded. The E-bot PRO cannot be powered on in the folded position.

11.2 You cannot see the texts clearly

- a. Make sure the focus is not locked. In Focus Lock mode, E-bot PRO doesn't focus automatically. Switch to Auto Focus by pressing the Enter button on the Wireless Controller for more than 2 seconds.
- b. Adjust the contrast by pressing the Enter button and Zoom In/Out button simultaneously on the Wireless Controller.
- c. If viewing glossy pages, please turn off the light to avoid glaring.
- d. Be sure the camera lens is clean. If there is dust on the camera, the image will not look like it's in focus and the Auto Focus will not work properly. Clean the camera with the cleaning cloth.

11.3 The Wireless Controller does not work

- a. The Main Body and the connected Wireless Controller's channel setting value must be set the same for the Wireless Controller to operate E-bot PRO properly. If there are two or more E-bots in the same place, settings must be set differently, so that the Wireless Controllers do not control the wrong E-bot, etc.
- b. For information on setting the Main Body Channel Values, please refer to section "5.3 Pairing the Main Body with the Wireless Controller" .
- c. For information on setting the Wireless Controller Channel Value, please refer to section "6.3 Pairing the Wireless Controller with the Main Body" .

11.4 Even though the values are the same channel, the Wireless Controller does not operate normally

- a. Replace the Batteries in the Wireless Controller.

11.5 If the Wi-Fi password is incorrect or you have forgotten the Wi-Fi password

- a. Please initialize the option settings, and it will be returned to “00000000” .

11.6 Upgrade firmware

- a. If you feel your E-bot needs software refresh, please contact your dealer's tech support office for instructions.

11.7 Monitor shows flickering image

- a. This problem can occur on specific types of monitors, mostly found in European countries. Press the Color mode button and Zoom Out button on the Wireless Controller simultaneously. To return to normal operation, please press the Color mode button and Zoom In button on the Wireless Controller simultaneously.

Warranty

- 1) The Warranty term is 2 years from the date of purchase.
- 2) The warranty does not cover problems arising from damage caused by the user, including, but not limited to; damaged caused by external force or damage caused by introducing liquid in to the unit.
- 3) Disassembling of the unit by anyone other than an authorized repair technician will void the warranty.

Customer Support

Manufacturer: JAWON MEDICAL CO., LTD.

Address: 174 Gajeong-ro, Yuseong-gu,

Daejeon, Korea 305-350

E-mail: hims@himsintl.com

Phone Number: +82-42-864-4460

FAX: +82-042-864-0133

FCC warning

NOTE: 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.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user' s authority to operate the equipment.