



HELP MENU



Introduction



System Operarion



Assessment



Trouble Shooting

Contact Information



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Introduction

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- ▶ [Getting to know your product](#)
- ▶ [How to use the touch monitor](#)
- ▶ [Two learning modes](#)
- ▶ [Level of difficulty](#)

Introduction

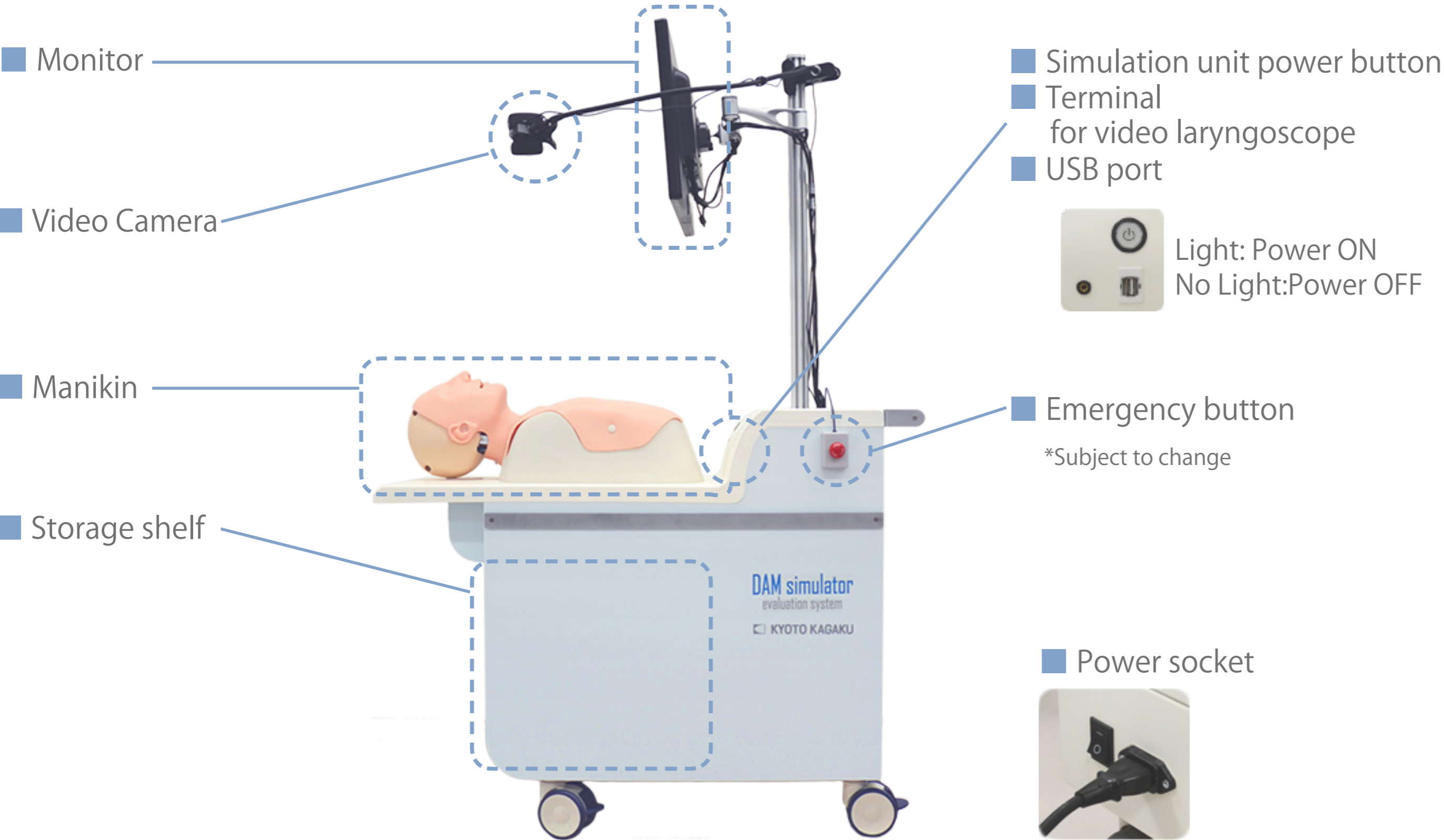
Set Includes

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Parts Names



■ Side tables



■ Cable for video laryngoscope



■ Printer



■ Keyboard



■ Lubricant



How to use the monitor

Basic guidelines on how to use the monitor.



■ Touch operation



Operate the touch-screen monitor with your fingers or the touch-screen compatible pen attached to the monitor.

Tap the screen lightly to select the items on the screen and operate. All system operations can be controlled with this touch-screen feature.



Do not press the power button on the touch-screen monitor.

The touch-screen monitor will automatically power on when the simulator power switch is turned on. Please do not touch the power button on the touch-screen monitor. If the monitor does not turn on after the simulator power switch has been turned on, verify if the monitor power button is ON.

Two learning modes

Users can use the Difficult Airway Management Simulator Assessment System with either an Self-Learning Mode or a Guest-Learning Mode.

■ Self-Learning Mode

Log in as a registered user to use the function of saving and reviewing personal record of training.

When creating a Self-learning account, the account will require the following information is registered:

- User ID
- Name
- Password
- Name of Department/Organization
- Grade in School
- Years of Experience

Related Help Pages

[▶ Creating a new account](#)[▶ Self-Learning Mode](#)

■ Guest-Learning Mode

Log in as a guest user to take the assessment and see your results. Results cannot be saved in the guest user mode. This mode is useful for seminars.

Related Help Pages

[▶ Guest-Learning Mode](#)

Definitions of each difficulty level

■ Normal (Difficulty Level:1)

Simulation of patient with no airway difficulties. Opening the mouth and retroflexion of the neck is most easy out of all four levels.

■ Rigid Neck (Difficulty Level:3)

Simulation of patient with limitations in neck retroflexion. Users should experience complications when trying to rise the chin.

■ Lock Jaw (Difficulty Level:2)

Simulation of patient with locked jaw. Opening the mouth is more difficult.

■ Micrognathia (Difficulty Level:4)

Simulation of patient with micrognathism (recess of lower jaw). Opening the mouth as well as retroflexion of neck are more difficult.

Software screen

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Self-Learning Mode

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Guest-Learning Mode

- ▶ [Guest-Learning Mode](#)

Others

- ▶ [Using a video laryngoscope \(analog image output\)](#)
- ▶ [Using a video laryngoscope \(USB image output\)](#)
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Icons

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Following icons are on the top right corner of the screen.



Home
Return to the main sinario
selection menu



Data
Display all assessment
results data from the past



Accounts
Manage your accounts



Print
Print your assessment
results screen



Help
Open the help menu



Power
Log out of an account or
shut down the system

Log into an individual account

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How to log into an individual account.

A screenshot of the 'User Login' screen. The screen has a blue header with the title 'User Login' and a red power button icon. Below the header, there are two input fields: 'ID' and 'PassWord'. Under the 'PassWord' field, there are two checkboxes: 'Login as Guest' and 'Setting'. To the right of these checkboxes is a blue 'Login' button. At the bottom left, there are labels 'Model' and 'Camera' followed by 'OK' text. To the right of these is a link that says '▶ Create an account'. At the very bottom, there is a row of small blue icons representing various medical equipment and a person.

When the power is turned on, the log in screen will appear automatically.

- 1 Enter the user account ID and password.
- 2 Tap the Login button.

Related Help Page

▶ Creating a new account

Beginning assessment

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TOP



1 Select the difficulty level, case scenario and equipment you are using.

- 1) Select a case scenario and an equipment.
- 2) Then adjust the head of the manikin so that it lies parallel to the simulator table.
- 3) When the head is positioned correctly the indicator on the right side shows "OK" (see below).
In case the manikin neck is rigid, press the button under the "Incorrect" indicator to release.
- 4) Then retry positioning till the indicator confirms "OK". Press "Next" to proceed.

In case of using video laryngoscope with USB output video, first turn on the video laryngoscope and connect the USB cable and press the "Next" button on this screen.

The screenshot shows the 'Self-learning mode' interface of the 'Airway Management Skill Evaluation Trainer'. The interface is divided into three main sections:

- 1. Please select the case.** This section contains five buttons: 'Normal' (selected with a star), 'Lock Jaw', 'Rigid Neck', 'Micrognathia', and 'Random Selection'.
- 2. Please select the device**
 - Lift epiglottis indirectly:** Shows two options, with the second one (a video laryngoscope) selected.
 - Lift epiglottis directly:** Shows two options, both of which are disabled with a red 'X' over them.
- 3. Please level the head of the model** This section contains two large indicators:
 - Incorrect:** A grey box with a diagram of a head tilted back. Below it is a button that says 'When the neck is stuck, please touch this button.'
 - OK:** A green box with a diagram of a head tilted forward. Below it is the text 'Adjustment Completion' and 'Release your hand from the model, and touch the "Next" button.'

At the bottom right of the interface is a blue 'Next' button. Red callout boxes with numbers 1 through 4 point to these specific elements: '1. Select a case' points to the 'Normal' button; '2. Select the device' points to the selected video laryngoscope; '3. Adjust the model' points to the 'OK' indicator; and '4. Next' points to the 'Next' button.

Next page →

Beginning assessment

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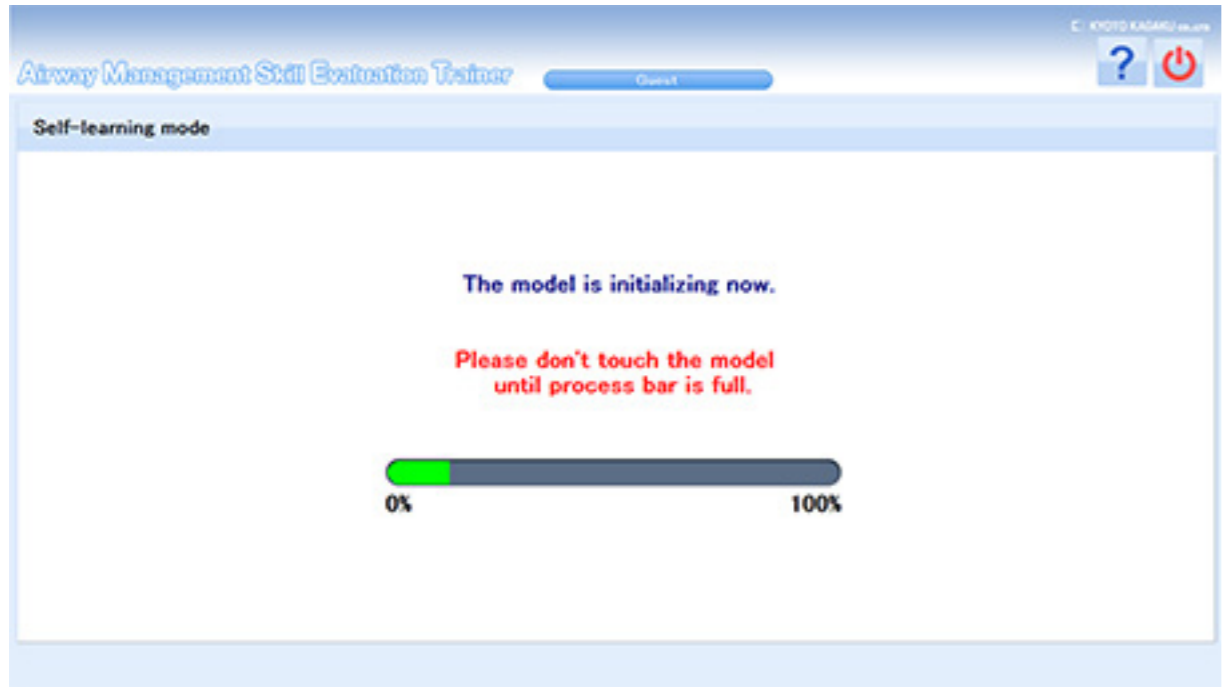


2 Initial positioning of model

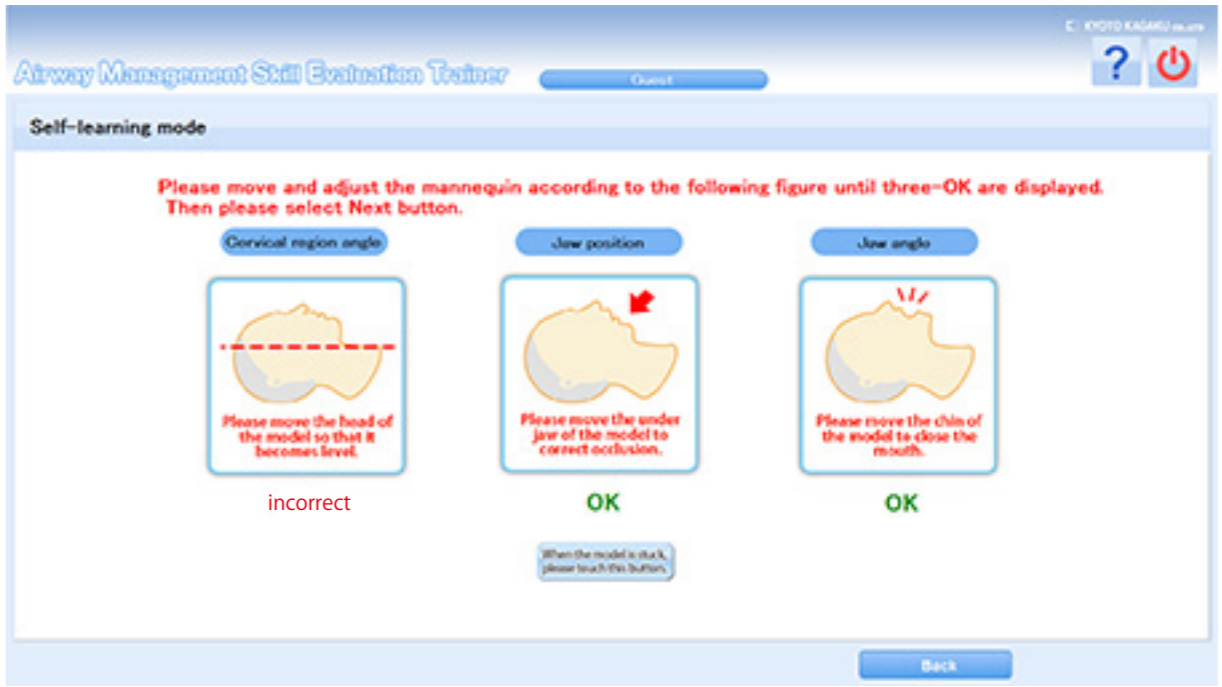
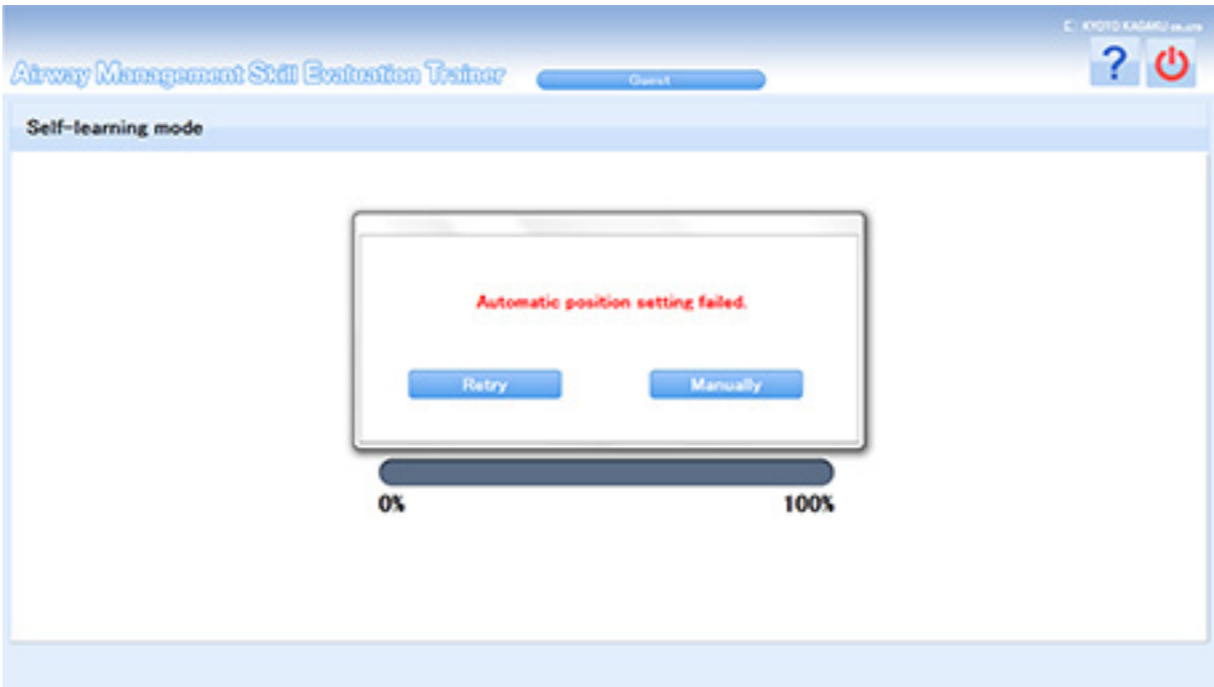
Initial position and scenario are set automatically. Do not touch the manikin until the indicator gage reaches 100% and the display transits to a new screen.

Following message is shown when automatic initial position setting failed. Press "Retry" to restart automatic setting. Press "Manually" to start manual setting.

When manual setting is selected, following display appears. Adjust the head of the manikin until all three indicators show "OK". Once the manikin has been positioned correctly, "Next" button appears. Press "Next" to proceed.



! Do not touch the model while the bar is loading.



Back

Next page

Beginning assessment

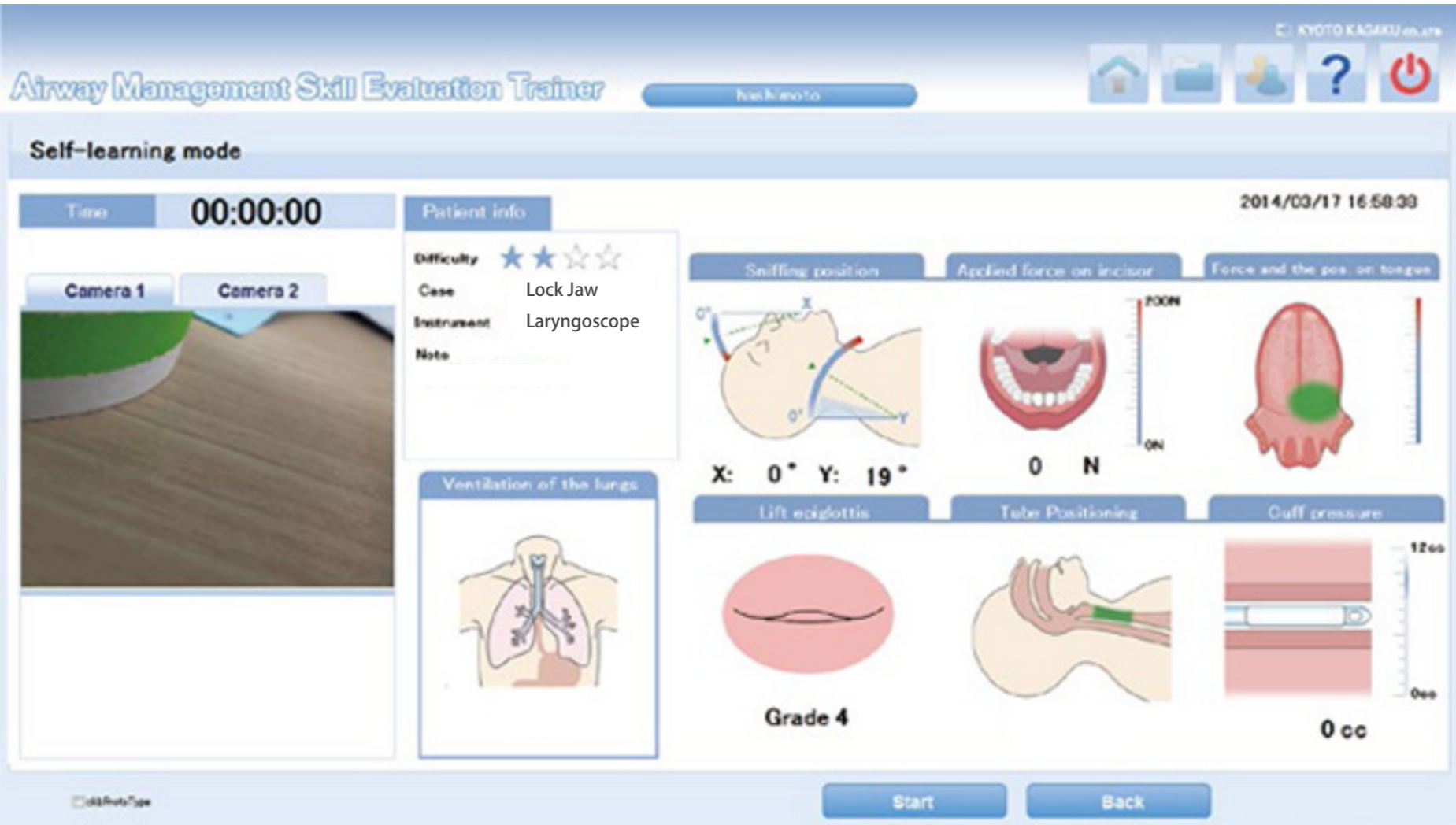
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3 Beginning the assessment

When the positioning is complete, the below image will appear on the screen.



Adjust the camera to capture your hand motions for assessment recording as the image is displayed.



In order to measure the cuff pressure correctly, please release all air from the cuff before procedure implementation.
Spray lubricant to intraoral, tube and blade before procedure implementation.

Tap on the Start button to begin your training. The video recording and sensor data recording will also begin.

When intubation is complete and air inflow is verified to both lungs, the assessment will automatically stop and the assessment results page will appear. You may also end your session manually by tapping on the Stop button.

Back

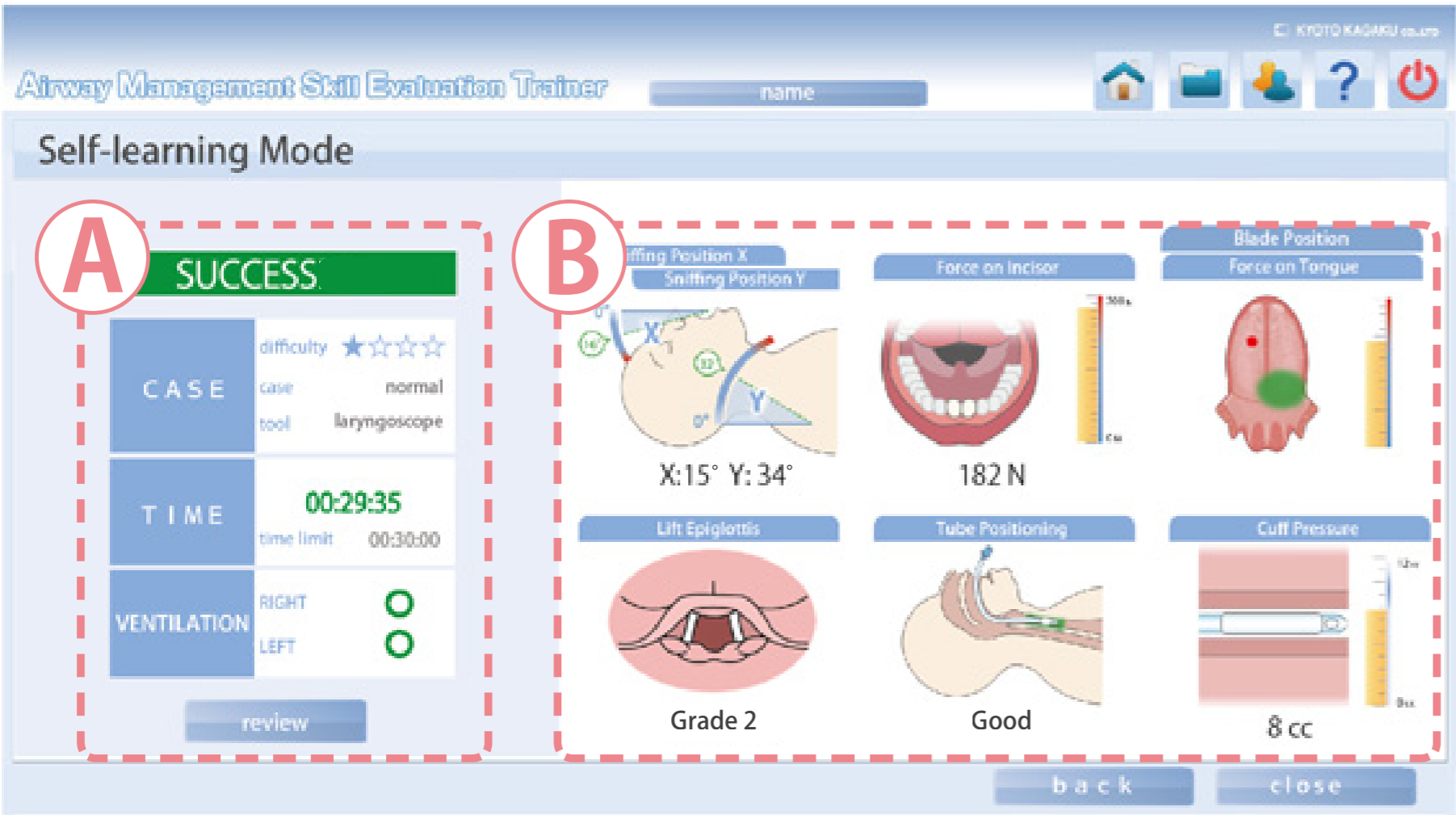
Displaying assessment results

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A guide through the assessment result page



1 Assessment Success or Fail

When the assessment is finished, a pop-up will appear as seen below.

To see your results, tap on the Result button. To take the assessment again, tap on the Retry button. To select a different case scenario, tap on the Case Selection button.

2 Checking your assessment results

A explanation of your results will appear.

- A Success or not assessment** When ventilation to lungs is completed under 30 seconds, the assessment is a successful. The time can be adjusted.
- B Skill assessment** Assessment of the amount of stress applied to the patient.

Related Help Page

▶ Assessments

Overview of assessment results

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Two methods to display past assessment results.

1 Displaying the 5 most recent assessment results

Tap on the “Performance” tab on the assessment results page. For each respective case scenario, the total number of assessments completed, the number of passing assessments completed, results of the 5 most recent assessments and the success rate of last 5 trials will display.

Airway Management Skill Evaluation Trainer

ABOD

Self-learning mode

Latest result

Prev result

2nd prev result

3rd prev result

4th prev result

Performance

2016/12/09 10:12:28

FAILURE

Case

Difficulty ★☆☆☆☆

Case Normal

Device Laryngoscope

Time 00:04:45

Time limit 00:30:00

Ventilation Right ✗

Ventilation Left ✗

Review

Difficulty level	Success rate	Result of the last five times					Success percentage
		Latest	Last time	2 bef.	3 bef.	4 bef.	
★★★★★	0/0						0 %
★★★★☆	0/0						0 %
★★★☆☆	0/0						0 %
★★☆☆☆	2/11	✗	✗	✗	○	✗	20 %

Select case

2 Overview of assessment results

To see an overview of past assessment results, tap on the Data Icon on the top right corner.



Each assessment result can be opened in sheet format by selecting the line and tapping on the “Sheet” button.

Airway Management Skill Evaluation Trainer

Kyoto

Learning history

Training

表示

List

Sheet

[DATE]	Case	Difficulty level	Device	Success rate	Time	Ventilation to	Head and neck	Head and neck	Force on neck	Force on torso	Left eyelid	Tube positioning	Cuff pressure
2016/12/10 10:24:45	Normal	1	Laryngoscope	Success	11.004	Nothing	21.87	18.18	158	80	1	Shallow Between 11cm and 21.5cm	8.83
2016/12/10 10:25:00	Normal	1	Laryngoscope	Failure	11.580	Nothing	24.12	20.44	176	52	1	Correct Between 11cm and 24.5cm	7.83
2016/12/10 10:25:10	Normal	1	Laryngoscope	Success	15.50	Nothing	26.51	16.20	176	30	1	Correct Between 11cm and 24.5cm	7.83
2016/12/10 11:25:11	Normal	1	Laryngoscope	Success	21.824	Nothing	28.16	20.62	81	7	1	Correct Between 11cm and 24.5cm	8.83
2016/12/10 11:25:18	Normal	1	Videolaryngoscope	Success	20.804	Nothing	28.28	18.83	4	40	1	Correct Between 11cm and 24.5cm	13.50
2016/12/10 11:25:19	Normal	1	Laryngoscope	Failure	4.00.000	Nothing	64.65	24.63	236	1	1	Correct Between 11cm and 24.5cm	8.83

Export

Exporting past assessment results

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How to export assessment results onto a USB drives.

1 Connect the USB drive

Insert your USB drive into the USB port below the simulation unit power switch.

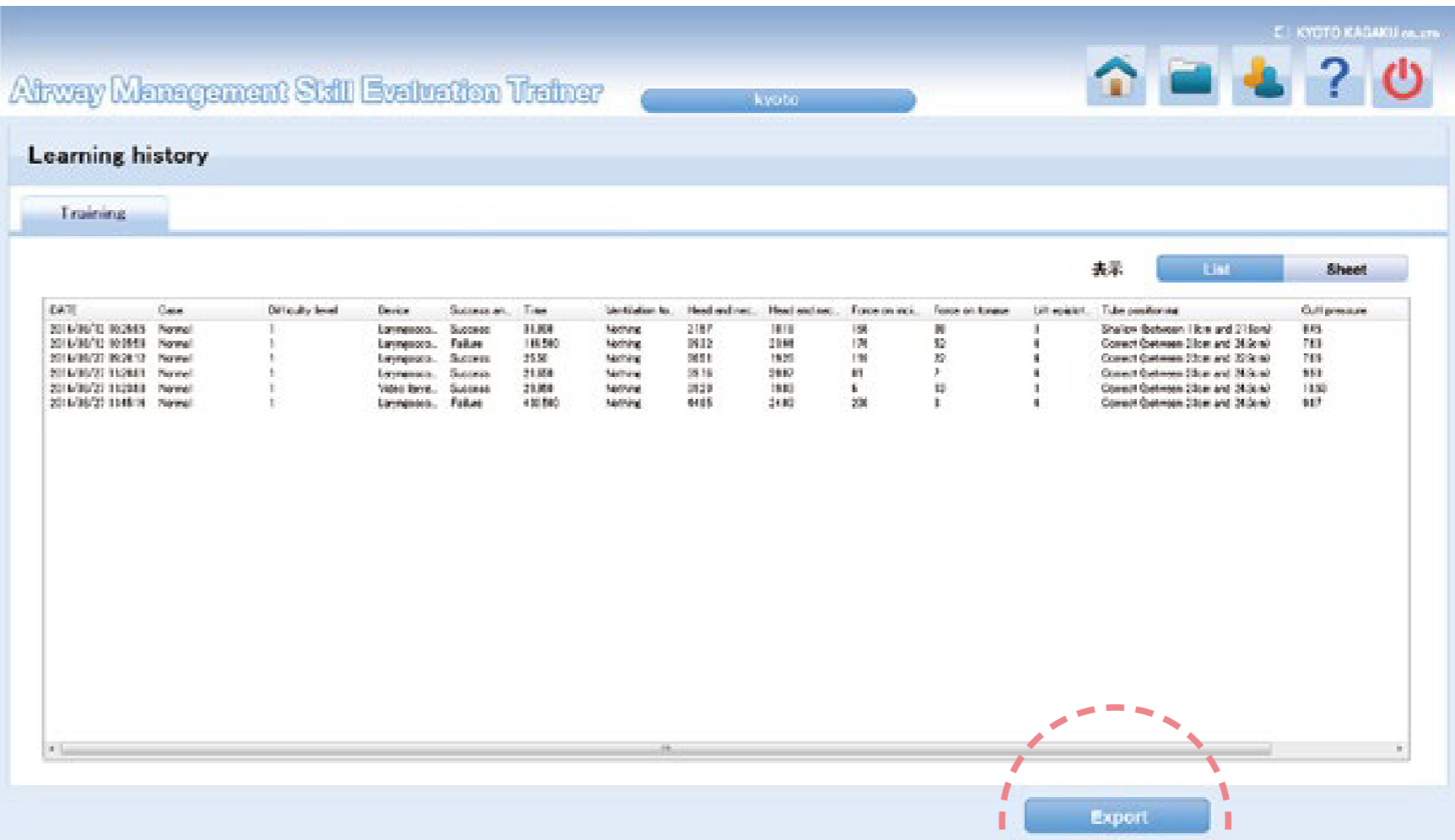


2 Select the data to export

Tap on the Data Icon  and display the assessment data. Select the data to export and tap on the Export button on the right bottom.

3 Connect the USB drive

Select your USB drive on the computer and save the data. The assesement video file, sensor file and an image of the assesment results page are saved.



Creating a new account

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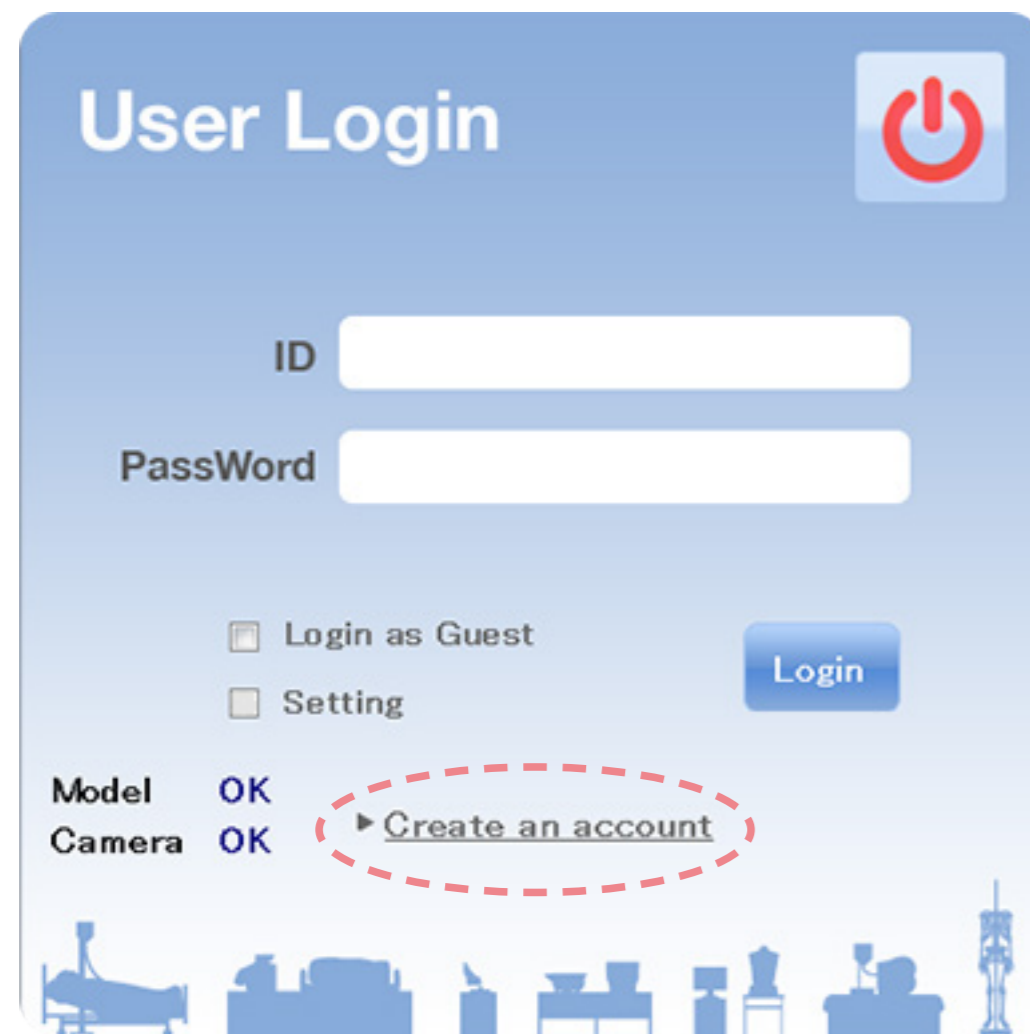
← HELP MENU
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An individual user account needs to be created to save assessment data.

1 Open the “Creating an account” page

Tap on the “Create an account” link on the Log In screen.



2 Account information

Input the following information for the new account.

- User ID
- Name
- Password
- Name of Department/Organization
- Grade in School
- Years of Experience

When all information is complete, tap on the Confirm button on the bottom right corner.

*Please enter N/A for unapplicable fields.

*Please enter your password twice for confirmation.

3 Verification of account information

Please verify your account information and tap on the Save button to submit.
Tap on the Change button to edit your account information.

Editing an existing account


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How to edit your account information

1 Open the account information page


Tap on the Accounts Icon  on the top right corner to open the account information page.

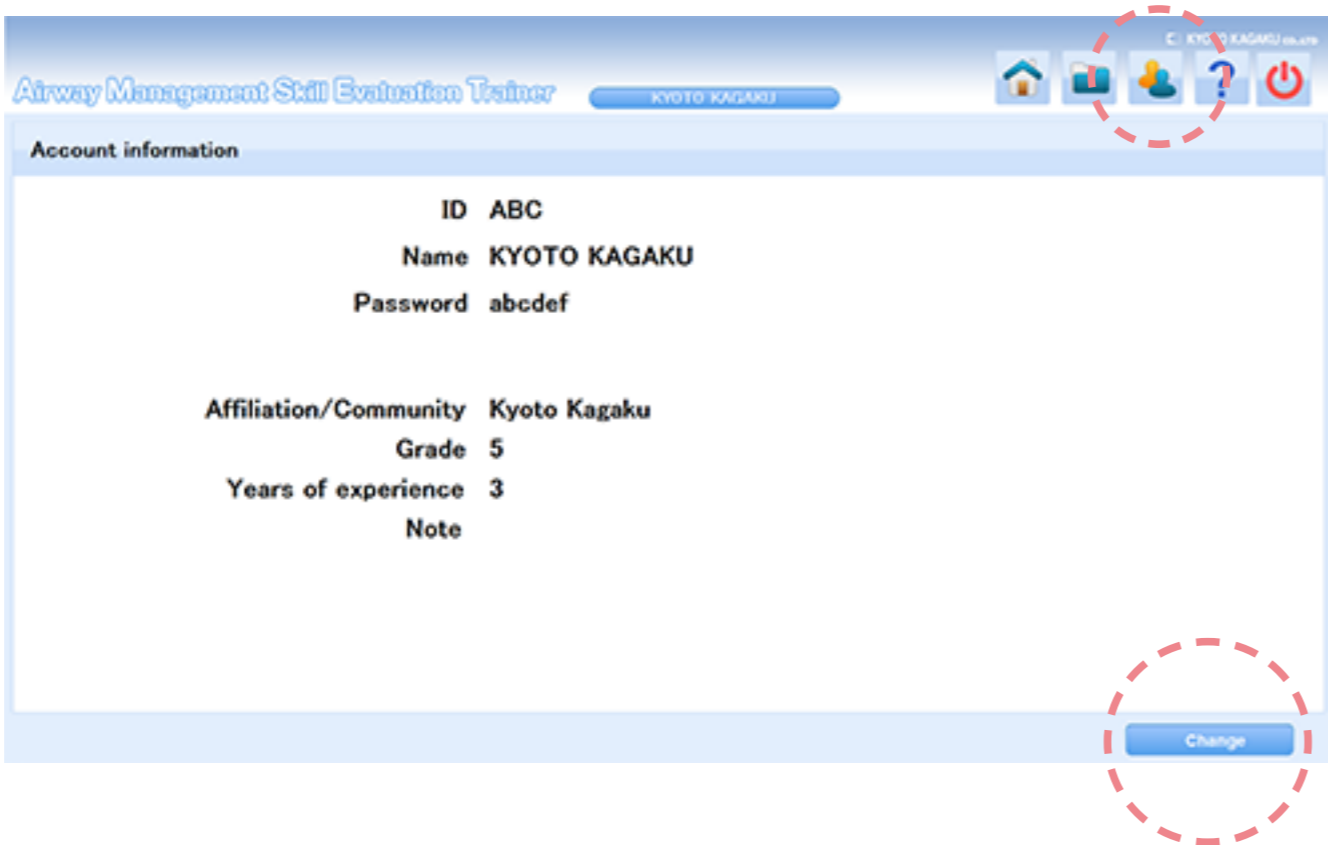
2 Open the account editing page.

Tap on the change button on the bottom right corner to open the editing window.

3 Editing your account information

Edit the account information and tap on the Update button on the bottom right corner when finished.

To return to the assessment page, tap on the Home Icon  on the top right corner.



Changing an account


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How to switch accounts

1 Open the Log In page

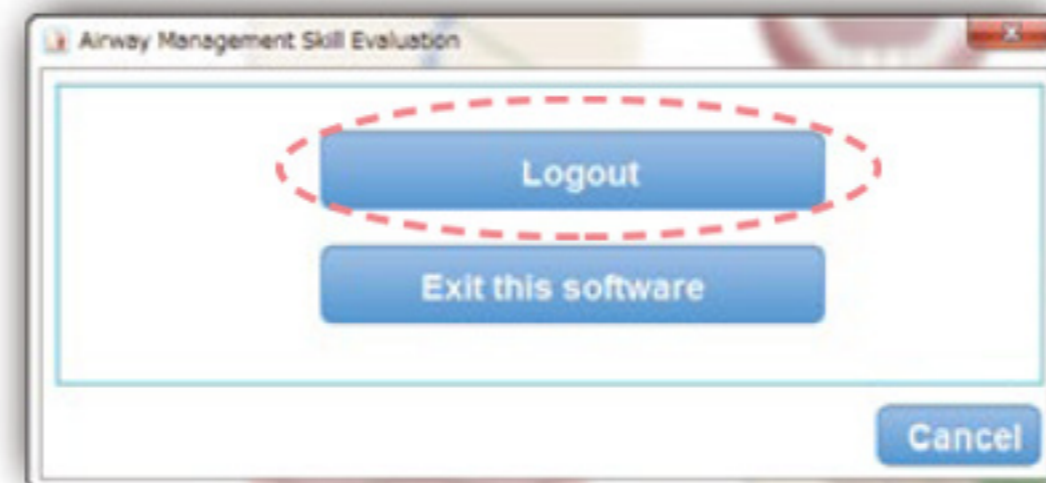
Tap on the power icon  on the top right corner of your screen.

2 Log out

A pop up similar to the image will appear. Tap on the Log Out button.

3 Return to the Log In page

Return to the Log In page and enter the account user ID and password.



Guest Learning Mode

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How to log in as a guest user

A screenshot of the 'User Login' interface. The screen has a blue header with the title 'User Login' and a red power button icon. Below the header are two white input fields for 'ID' and 'PassWord'. Underneath these fields are two checkboxes: 'Login as Guest' (which is checked and highlighted with a red dashed oval) and 'Setting' (which is unchecked). To the right of these checkboxes is a blue 'Login' button. At the bottom left, there are labels for 'Model' and 'Camera', both followed by 'OK'. To the right of these is a link that says '▶ Create an account'. At the very bottom of the screen is a row of small blue icons representing various medical equipment and facilities.

- 1 Go to the Login page, and check the Login as Guest option. * ID and Password can remain blank

- 2 Tap on the Login button.
After logging in, the guest user can select difficulty level, case scenarios and equipment and start the session in the same way as an individual account user.

Related Help Page

▶ Beginning assessment

Using a video laryngoscope (analog image output)

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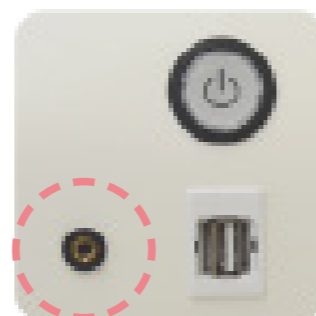


To use the video laryngoscope (analog image output) for assessment, the equipment must be connected to the simulator machine before beginning the session.

- 1 Prepare the included cable for the video laryngoscope.



- 2 Insert one end of the cord into the port near the simulator power switch, and connect to the video laryngoscope.



- 3 Then select the video laryngoscope on the screen. When you proceed to the assessment page, tap on the camera 2 tab to see the image captured by the video laryngoscope.



Use a video laryngoscope (analog image output) with a mini plug compatibility.

The simulator uses mini-plug to connect with a video laryngoscope. Be sure to use a device that is compatible with the mini-plug.

■ Recommended: Pentax Airway Scope - AWS S100L

Using a video laryngoscope (USB image output)



To use the video laryngoscope (USB image output) for assessment, the equipment must be connected to the simulator machine before beginning the session.

- 1 Prepare the USB cable attached to the video laryngoscope.
- 2 Connect one of the plugs in the USB port near the simulator's switch, and the other one in the video laryngoscope.
- 3 After connecting the plugs, turn on the video laryngoscope and select "AWS S200". Once entering into the training page, select the tab "Camera 2" displayed on the video reproduction window. The images from the laryngoscope will be displayed on the screen.



Recommended the blade for AWS S200:
PBLADE (THINNER)

Changing the assessment time limit


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How to change the time limit (Default is 30 seconds)

1 Open the Login page

Tap on the Power Icon  on the top right corner and log out.

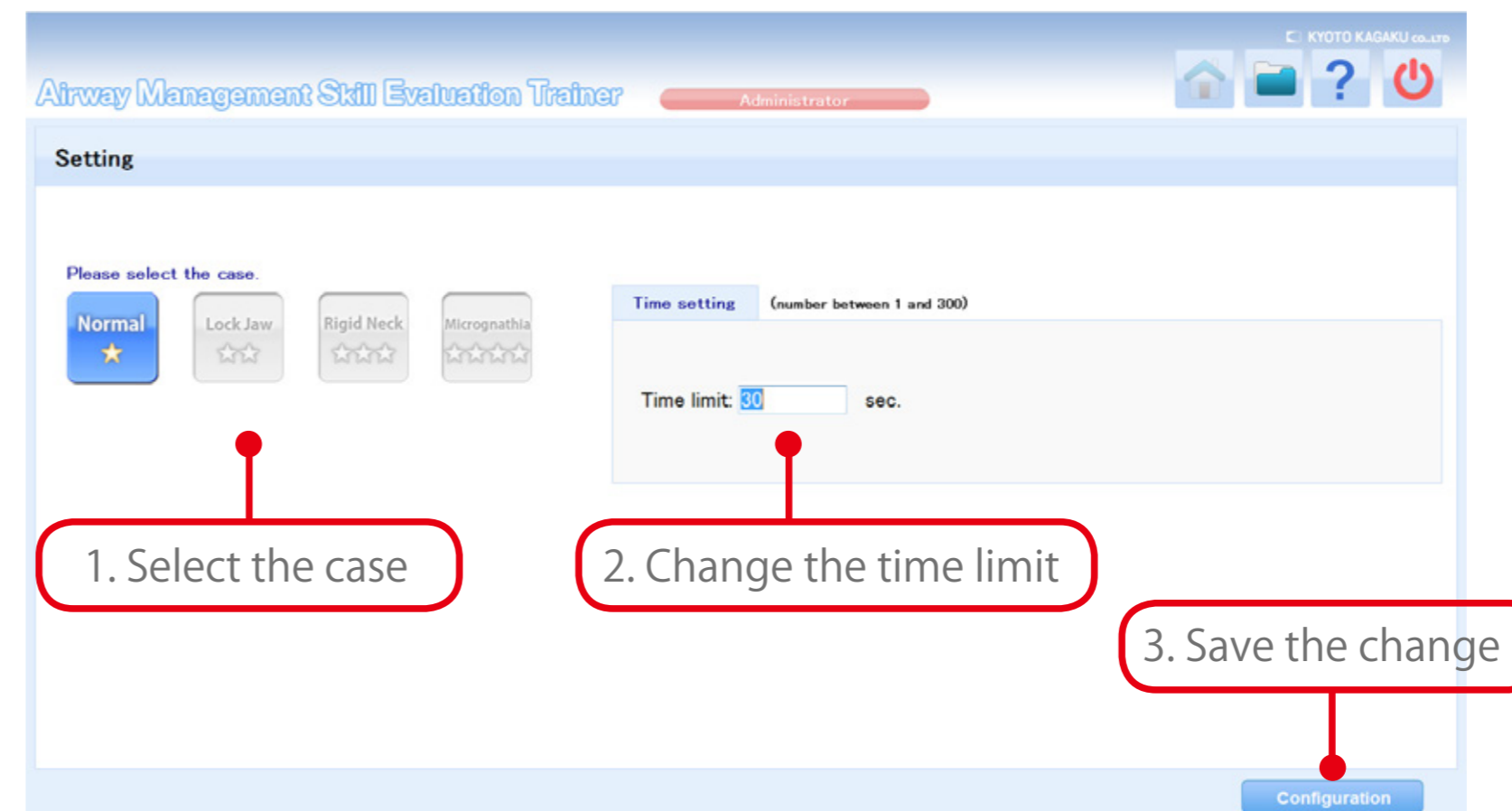


2 Open the Settings page

Check the Setting option. Then ID will automatically fill in.
Enter in "**admini**" as the password.
Tap on the Login button.

3 Change the time limit

In the settings page, select the difficulty level on the top left corner, as well as the case scenario. The time limit for the chosen scenario can be changed on the lower right section of the screen. Tap on the "Configuration" button to save the change.



Printing the results page

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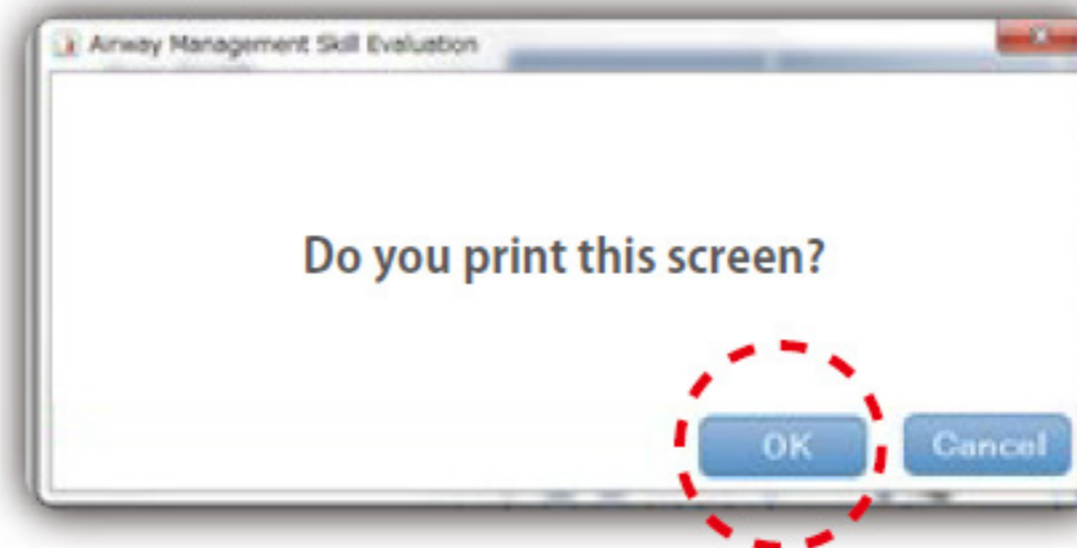


Use the included printer to print your assessment results.

- 1 Open the assessment results data to print and tap on the Print icon on the top right corner.



- 2 Press OK to print.



Closing the system



How to exit the system and turn off the simulator power switch.

1 Tap on the Power icon 

Tap on the Power icon on the top right corner of the screen.

2 Logout / Exit this software

A pop up will appear.

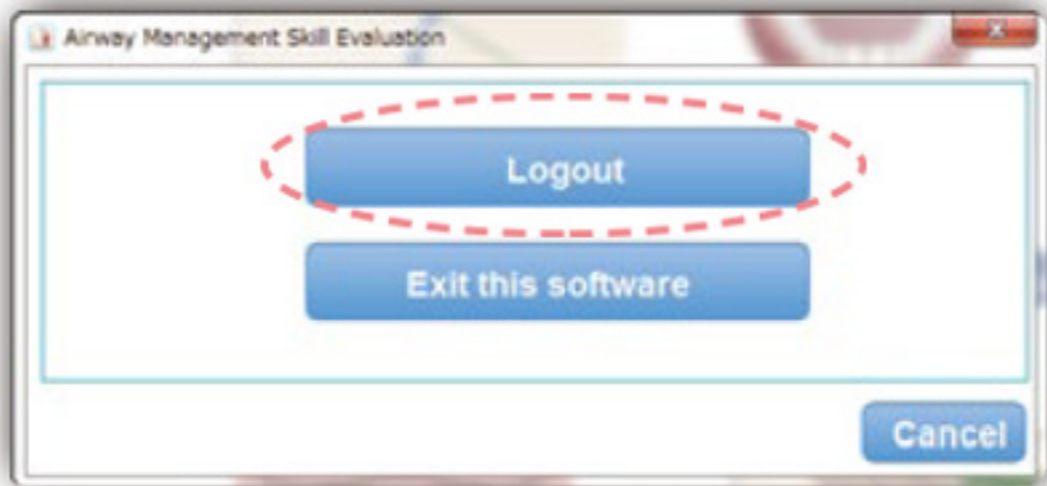
- To switch accounts
→ Tap on the “Logout” button to return to the Login page.
- To shut down
→ See step 3.

3 Exit this software / Power off

When you tap on the “Exit this software” button, the simulator power will automatically turn off. The simulation unit power button blinks dimly indicating “stand-by.”



Once the light for the simulation power button changes to dim blinking, turn off the electricity power switch to the “○” mark and plug out the power cable.





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Assessments

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- ▶ [Assessments](#)
- ▶ [Intubation Result](#)
- ▶ [Skill Assessments](#)

This simulator provide objective assessment and analysis of the user’s performance.



Intubation result on the left of the screen is the Successful/ Failure assessment with criteria 1 and 2, and on the right of the screen is the skills assessment with criteria 3 to 10 .
The skills assessment focuses on the negative impact given to the patient during the procedure.

▶ Pass/Fail Assessment

▶ Skills Assessment

Intubation result



Details of the intubation result.

Dual lung intubation completed under 30 seconds is defined to be successful.

- 1

Time limit

Displays the time the user took from start to successful ventilation of lungs. As default, the time limit is set to 30 seconds and can be changed.

▶ Changing the assessment time limit
- 2

Lung Ventilation

Ventilation to left and right lungs is indicated respectively.

▶ Skills Assessment

SUCCESS

CASE

difficulty ★☆☆☆
case normal
tool laryngoscope

TIME

00:29:35
time limit 00:30:00

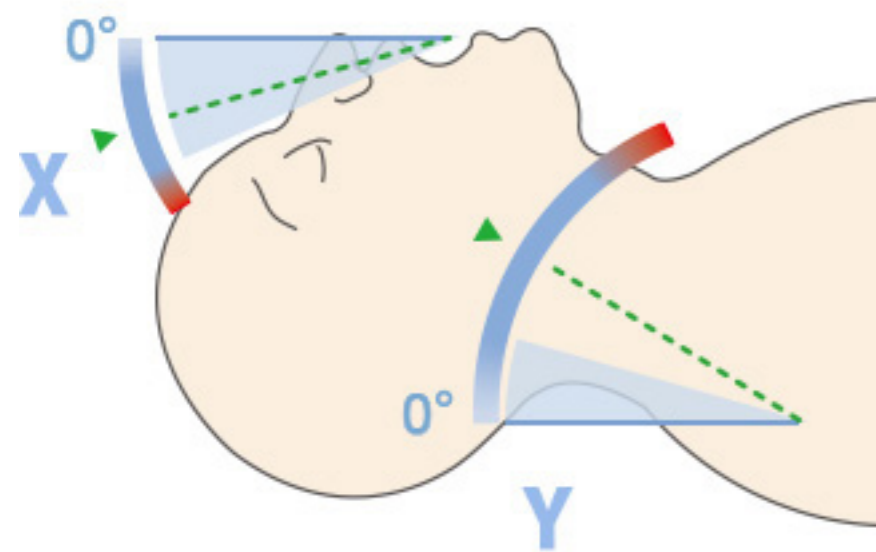
VENTILATION

RIGHT ○
LEFT ○

review

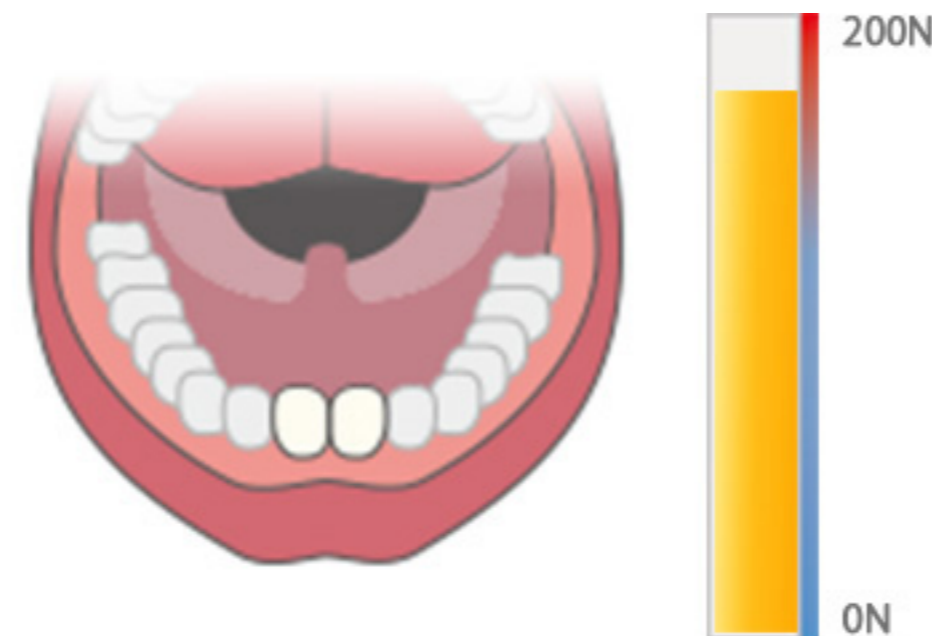
3 4 Sniffing Position

X is the angle of head extension at the occipital joint and Y is the angle of the cervical or neck flexure. Recommended angles are 15 degrees and 30 - 35 degrees respectively, and the dotted green lines indicate the ideal positioning. Maximum respective degrees during the session are shown on the assessment results page.



5 Force on incisor

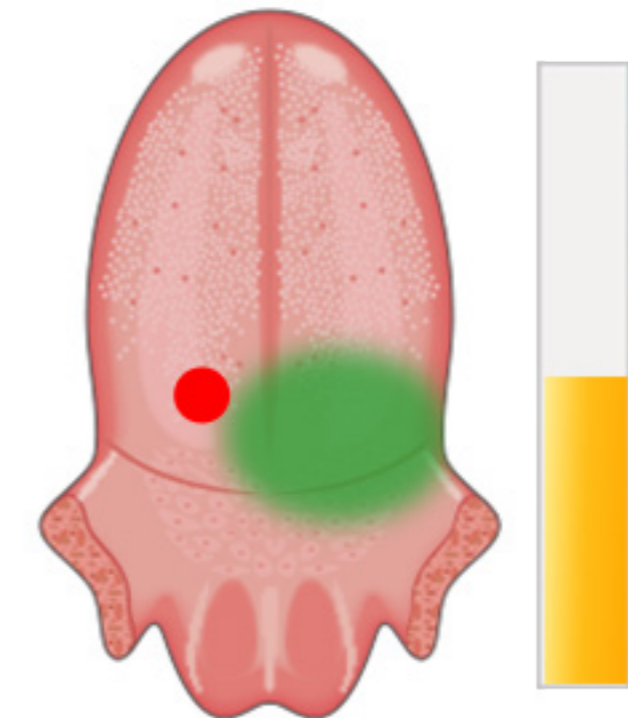
The bar on the right indicates the amount of force applied to the front teeth. (Units are in Newtons) On average, front teeth break with approximately 200N of pressure applied. Maximum applied force during the session is shown on the assessment results page.



* Janet B. Quinn, "A tooth broken after laryngoscopy: unlikely to be caused by the force applied by the anesthesiologist." *Anesthesia & Analgesia*, pp.594-596, 2005.

6 Blade Position

The central point applied force on the tongue with the blade is indicated by the red dot. The green region is the recommended area of force application. The position of blade at the time when the tube has passed the vocal cords is shown on the result page.

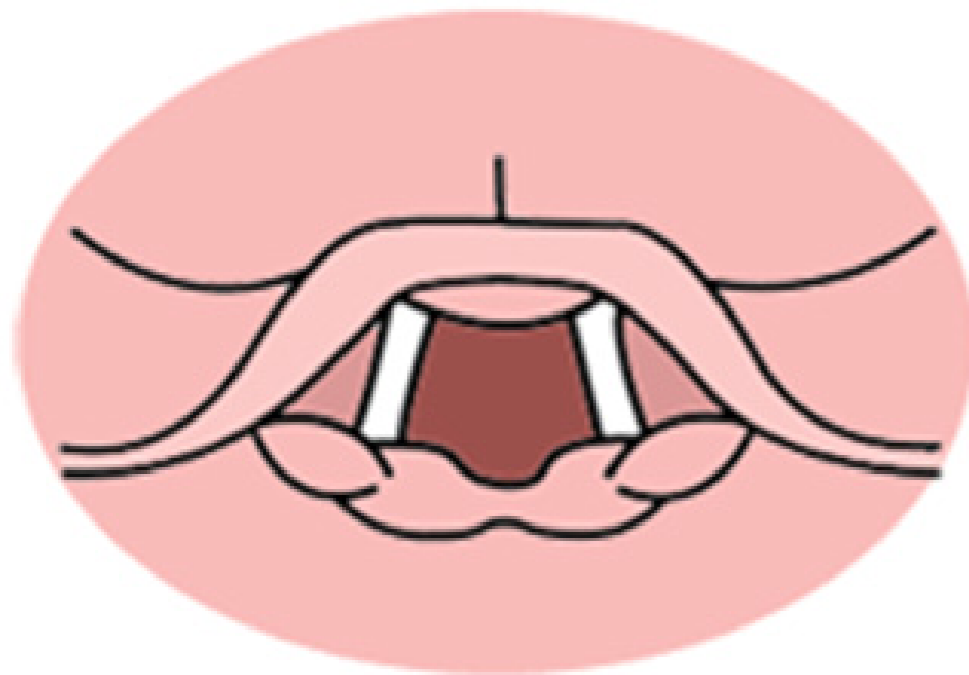


7 Force on Tongue

The bar indicates the force applied to the tongue. If the force exceeds the level indicated in blue, the force cannot be measured. The force on tongue at the time when the tube has passed the vocal cords is shown on the result page.

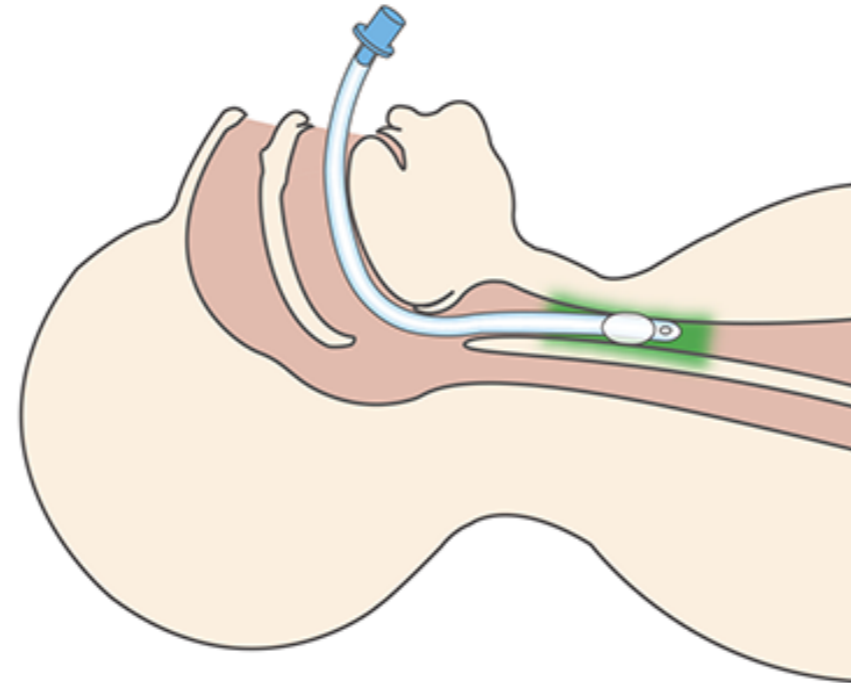
8 Lift Epiglottis

The lift of the epiglottis is measured by the Cormack standard and is classified into Grades 1-4. The degree of lifting at the time when the tube has passed the vocal cords is shown on the result page



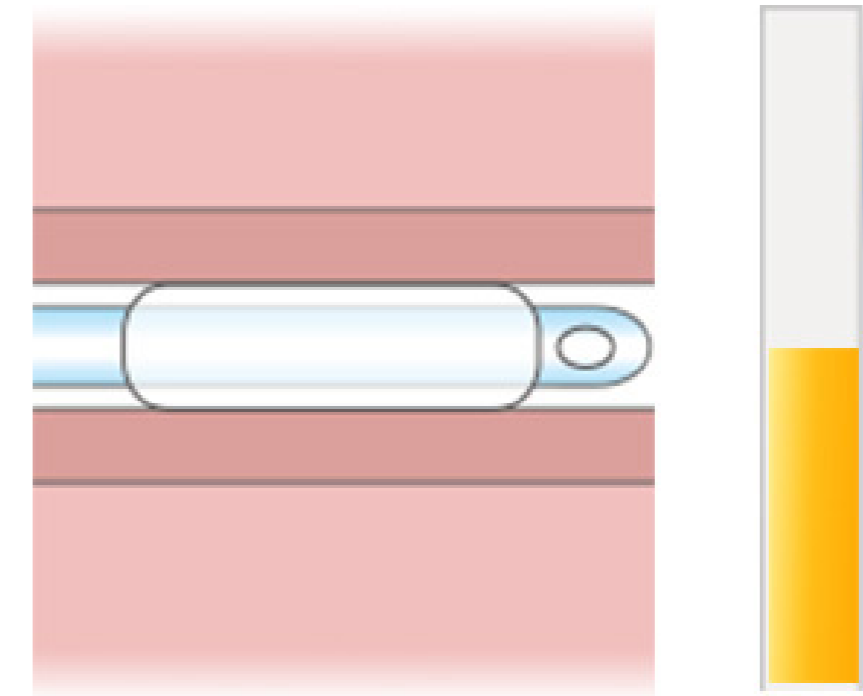
9 Tube Positioning

The insertion depth of the tube is assessed into 5 levels (18cm or less, 18cm to 22cm, 22cm to 23cm, 23cm to 25cm, and 25cm or more). The green highlighted area indicates the recommended positioning of the tube end. The final position of the tube is shown on the result page.



10 Cuff Pressure

This measures the amount of air pumped into the cuff. Units are in cc, and recommended amount ranges from 5cc to 11cc. (The assessment results and recommendations may vary with tubes that are not 7.5mm in diameter). The final result is displayed on the assessment results page.





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Trouble shooting

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- ▶ The big difference of amount of the cuff
- ▶ Power falls on its own
- ▶ Abnormal operation of the chin
- ▶ In spite of being set to the normal mode, the manikin's neck or jaw is rigid.
- ▶ Touch monitor is not working
- ▶ The screen returns to the initial positioning display automatically.
- ▶ While training, the sensors do not react.

If you are experiencing difficulties not listed in this page, please restart your simulator and verify its status.

If the difficulty persists, please contact your local distributor or Kyoto Kagaku Co., LTD.

Contact
Information

The big difference of amount of the cuff

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There is a big difference between the actual amount of air injected into the cuff and the amount of air measured.

Replace the tube.

The cuff of the trachea tube can be stretched and expanded by repeated use. This may result in variation between measured volume and real volume of the injected air.

If there is a big difference between the actual amount of air injected into the cuff and the amount of air measured, replace the trachea tube with a new one.

If you are experiencing difficulties not listed in this page, please restart your simulator and verify its status.

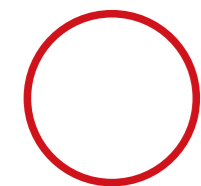
If the difficulty persists, please contact your local distributor or Kyoto Kagaku Co., Ltd.

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Power falls on its own

The simulation unit does not work properly if the emergency button is pushed down.
Verify that the emergency button is set up correctly.

1 Verify that the emergency button is not pressed down.



Released
-Emergency button not activated



Pressed down
-Emergency button activated



If the button is pressed down, turn the button clockwise to release the lock.

2 Restart the simulator.

Turn off the simulator power switch and restart the machine.
Check to see if the case scenarios will operate.



Power falls on its own immediately after turning on the simulation unit power button.



Check emergency button.

If the emergency button is turned on when the simulator starts, the simulator will be force terminated for safety.

After having verified that power button indicates stand-by (dim-blinking), turn off the main power switch on the back bottom of the simulator and wait for about five minutes.

Then, release the emergency button and turn on the main switch.

Abnormal operation of the chin

If the jaw of the manikin closes during training and causes complications, please press the emergency stop button.

1 Press the emergency button to stop the monitor.

Cause of abnormal operation is what the motor that makes cases become unstable. Press the emergency button. The chin becomes free.

The simulator is turned off automatically for safety when the emergency switch is pressed. Once the simulation power switch indicates stand-by (dim blinking) , turn off the main power switch on the back bottom of the simulator and wait for about five minutes. Then, release the emergency button and turn on the main power switch.



2 Setting up the emergency stop button

If the emergency stop button is left pressed down, the case scenarios will not work. After the button has been pressed, please make sure that the button is released.



Turn the button in the direction of the arrows to return it to its normal position.



○ Released
-Emergency button not actived



✗ Pressed down
-Emergency button actived

Trouble Shooting

In spite of being set to the normal mode, the manikin's neck or jaw is rigid.

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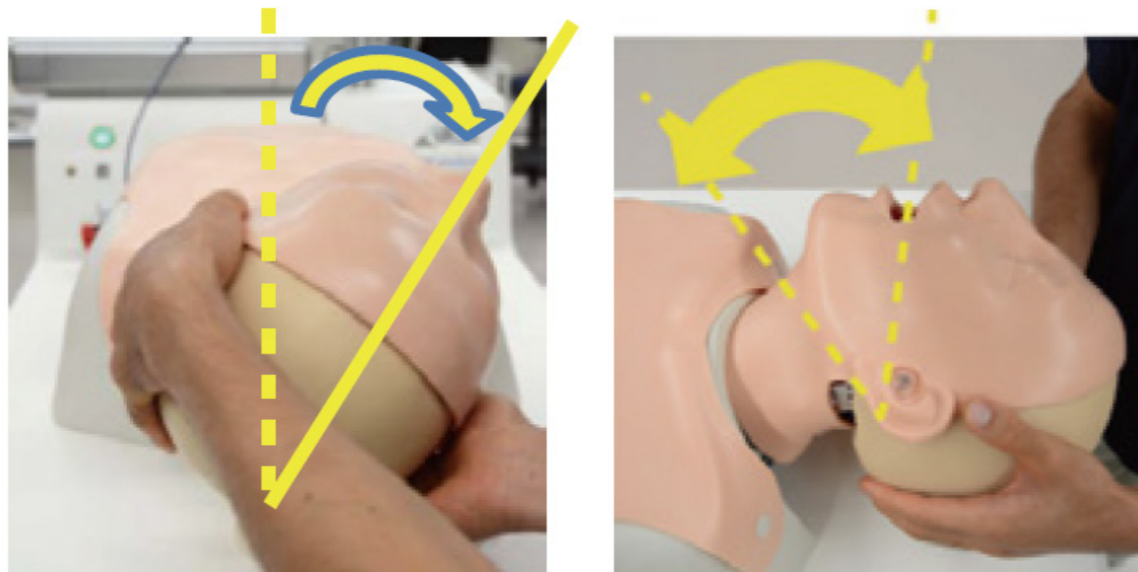
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● The manikin's neck is rigid.

Reset the neck with following procedures.

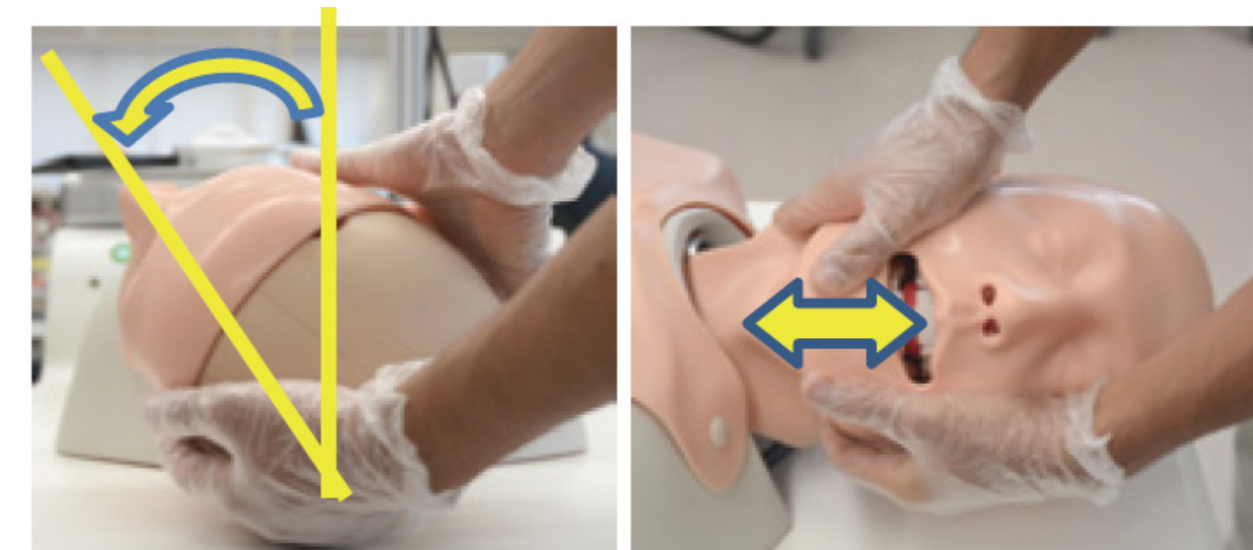
Move the head back and forth and turn the head to the right. Place the head back in place with the face upright and re-adjust it to meet settings requirements on the initial positioning screen.



● The manikin's jaw is rigid.

Reset the jaw with following procedures.

Move the chin back and forth and turn the face to the left. Place the head back in place with the face upright and re-adjust it to meet settings requirements on the initial positioning screen.



If you are experiencing difficulties not listed in this page, please restart your simulator and verify its status.

If the difficulty persists, please contact your local distributor or Kyoto Kagaku Co., Ltd.

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Touch monitor is not working

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If your monitor does not turn on when the simulator is turned on, please see the following instructions:

- Check the switch of the monitor.

Initial setting of the monitor is "ON."

But if it might have been turned off, check whether the monitor switch on the bottom of the monitor is turned on.
At the same time, check connection between the simulator and the monitor.

*Always keep the monitor's power turned on.

If you are experiencing difficulties not listed in this page, please restart your simulator and verify its status.

If the difficulty persists, please contact your local distributor or Kyoto Kagaku Co., Ltd.

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Trouble Shooting

The screen returns to the initial positioning display automatically.

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- ① The screen returns to the initial positioning display automatically when start button on measurement screen is not tapped for a while.
- ② Measurement finishes automatically if the procedure lasts longer than usual.

- The measurement screen is designed to be switched over after five minutes.

To prevent an abnormal heating of the monitor, the measurement screen returns to the initial positioning display automatically if the session has not started for over five minutes.

Also, to save the memory for recording data, measurement finishes automatically if the procedure takes up more than 5 minutes.

If you are experiencing difficulties not listed in this page, please restart your simulator and verify its status.

If the difficulty persists, please contact your local distributor or Kyoto Kagaku Co., Ltd.

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While training, the sensors do not react.

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While training, the sensors do not react.

- Tap on the “Back” button circled in yellow and restart the initialization procedure on the installation screen.

If you are experiencing difficulties not listed in this page, please restart your simulator and verify its status.

If the difficulty persists, please contact your local distributor or Kyoto Kagaku Co., Ltd.

Contact
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For questions or concerns, please contact your local distributor or Kyoto Kagaku.

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