

Next generation Medical Simulator mikoto Colonoscopy Model R0CT01

User's Manual

R ZERO Inc.

Ver.2.4 (29/1/2025)



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1. Introduction

This product is an educational training simulator for colon insertion practice and observation practice at the time of removal. It reproduces the sensation of insertion close to that of a human being, enabling practice of procedures close to actual practice.

\star Please be sure to read the following.

Do not use the product for any purpose other than its intended use. Please note that we are not responsible for any damage or accident that may occur by using the product in a manner other than that described in the instruction manual.

★ Product Features

[Ease to use]

- Quick set up
- Build-in touch panel display
- [Portable material and size]
- Lightweight (8.7 kg), box type, compact in size

[Easy to maintain]

- Vegetable oil-based lubricant
- No need to clean-up after use

\star Product Function

[Realistic colon model]

- Soft material, smooth surface
- Realistic fold shape and texture
- Multiple polyps
- [Self-learning can be achieved]
- Recording videos for personal review
- Procedure scoring system
- 4 adjustable difficulty settings

*Specifications of this product are subject to change without notice.

★Product Safety

The overall safety of this product system is the responsibility of the system assembler. Refer to this manual for actual handling instructions.



2. Safety precautions

To prevent injury to persons and damage to equipment, please follow the following instructions.

\Lambda DANGER	Extent of imminent hazard which has the potential to cause death or serious injury to the user in the case of improper handling.
A WARNING	Extent of hazard which has the potential to cause death or serious injury to the user in the case of improper handling.
A CAUTION	Extent of hazard or damage which has the potential to cause injury to the user or damage to physical property (houses and household goods) in the case of improper handling.



This symbol means "prohibited" (never do this)



This symbol means "compulsory" (be sure to do)

\triangle	DANGER
\bigcirc	Do not apply shock or pressure to this product. Failure to do so may result in malfunction or injury.
\bigcirc	Do not heat the product or place it in a fire. Doing so may cause overheating, fire, or electric shock.
\bigcirc	Do not use the product near fire or heat appliances. Doing so may cause overheating, fire, or electric shock.
\bigcirc	Do not use medical devices such as electrocautery or forceps other than endoscopes. Doing so may cause malfunction.



\triangle	WARNING
\bigcirc	Never attempt to disassemble, modify, or repair the product. Disassembly, modification, or repair may cause fire, malfunction, injury, or electric shock. For repair, please contact our regional representative or the distributor from which you purchased or R ZERO Inc. (E-mail:mikoto@rzero.jp)
	In case of abnormality or malfunction, stop using the product immediately and unplug it from the power supply. Immediately contact our inquiry desk.
	Endoscopes inserted into the unit may contain residual lubricant. Please reprocess the endoscope in accordance with the endoscope manufacturer's reprocessing manual.
\bigcirc	Do not disconnect the power plug during operations (e.g. while changing the difficulty level or moving the abdominal pressure plate or the power lamp is blinking when the unit is shutting down.)
\bigcirc	Do not move the product while energized. Transporting or carrying this product with the power on may cause electric shock, malfunction, or failure. Always turn off the power and disconnect the power plug before moving the product.
\bigcirc	Do not open the lid of the device while the power is on and do not put your hand inside. Doing so may cause injury.
\bigcirc	Do not apply excessive force to the colon modeling model or allow it to come into contact with sharp objects. Doing so may cause damage.
0	If the colon model is torn or damaged, please stop the training and shut down the unit. Using the colon model in its original state may damage the endoscope coming out of the damaged area or cause the lubricant to leak into the unit, resulting in a malfunction. Please wipe up any leaked lubricant and tie up the damaged part or cover it with a plastic bag to prevent further leaking. After that, please contact the distributor which you purchased the unit.
\bigcirc	Do not put any liquid other than the dedicated lubricant oil into the colon model or get the unit wet. It may cause the malfunction, electric shock or fire.
\bigcirc	Do not inject the lubricant through a working channel of an endoscope. It may cause poor visibility of endoscopic video image.
\bigcirc	The Lubricant should only be used for the colon models.



	Keep lubricant away from ignition sources such as heat, sparks, naked flames, and hot objects. Failure to do so may cause fire.
0	When unplug a connector of a cable, do not pull the cable but always hold and pull the connector. If not, the connector or the cable may be damaged, resulting in electric shock or fire.
\bigcirc	Do not press metal objects into the contacts. Doing so may cause heat generation, fire, or electric shock.
\bigcirc	Make sure to insert the power plug all the way to the root. If the plug is not pushed in properly, it may cause ignition or electric shock.
0	Use the accessory products that are bundled with the unit for connection to the unit. Do not use other products as they cannot be used or may cause malfunctions. Also, if the power cord needs to be replaced, contact the dealer from whom you purchased the product.
\triangle	CAUTION
	Clean the unit with neutral detergent

Clean the unit with neutral detergent.

Store the product away from direct sunlight, high temperature and high humidity. Doing so may cause deformation, discoloration, or malfunction.



Areas marked with this symbol are moving parts. Be careful not to get your hands or fingers caught. Doing so may cause injury or malfunction.

Attach the supplied anal cover to the anal part of the colon model and keep it in place. Lubricant may leak from the inside of the colon model to the outside.

The Wi-Fi function will only be in a state where the connection is permitted if the unit is the client. The Bluetooth function will also lock access to the part to be configured and the wireless function will be disabled.

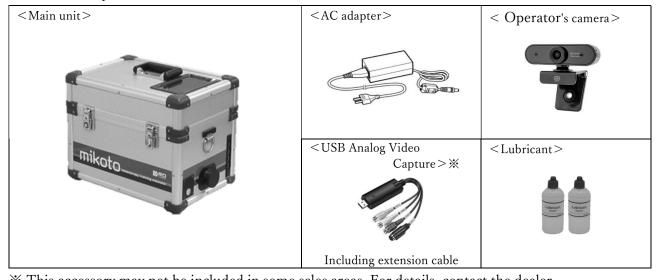
When transporting the unit, keep it in the packing box that was used when the unit was delivered or in a case that can mitigate external shocks. Do not drop the unit or subject it to impact. Doing so may result in damage to parts or malfunction.

Use of the equipment in a manner not specified by the manufacturer when using the equipment will impair the protection provided by the equipment and should be used in accordance with the handling instructions in this manual.

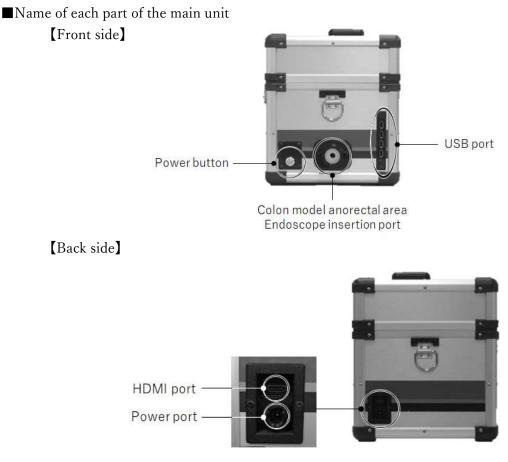


3. Before use

■Product components (main unit and accessories)

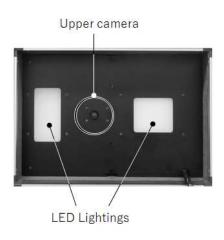


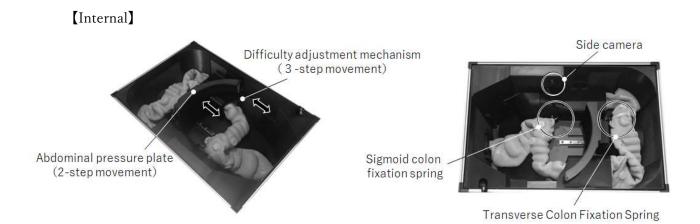
* This accessory may not be included in some sales areas. For details, contact the dealer.
* Although this product is manufactured and inspected with the greatest possible care, there may be minute scratches on the exterior during the manufacturing process . This does not affect the performance or function of the product. Please be aware of this beforehand.





[Inner upper panel]





[Mounting Parts]



Anal cap



4. Preparations

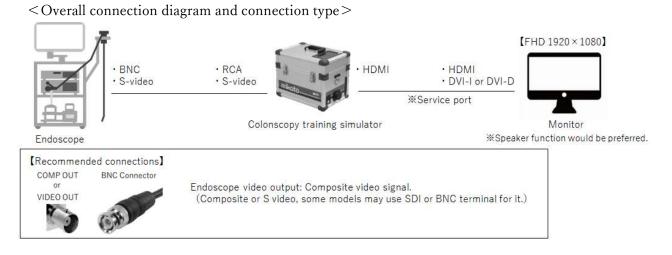
4 - 1 Place the colonoscopy simulator on a level surface

Depending on the location, place a sheet or similar material underneath the simulator to prevent contamination by the lubricant.

4-2 Power supply connection

Plug the AC adapter into the power port of the main unit and the power plug into a wall outlet.

- 4-3 Connecting peripheral devices
 - Plug the operator's camera and USB analog video capture into the USB port on the main unit.
 - The connection to the endoscope system and a monitor are as shown in the figure below.
 - A keyboard and a mouse can be connected for the operation.



- 4 4 How to use lubricants
 - Remove the anal cap.
 - Inject the lubricant into the sponge while rotating the part, so that the lubricant is fully applied.





Remove the anal cap



Inject the lubricant while rotating the part

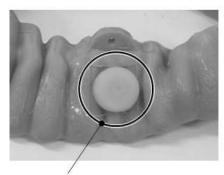


If too much oil is injected into the sponge, the lubricant may start leaking from the part. Please inject it a little at a time.

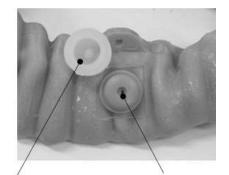


%The inside of the colon model is sufficiently filled with lubricant. If an endoscope does not glide well, please add the lubricant from the inlet shown below, attach the cap you removed and slowly shake the colon model to spread the oil inside.

When injecting the lubricant, hold the area around the inlet securely. If not, the lubricant may leak out.



Remove inlet cap



Removed cap

inlet

4-5 Endoscope preparation

This model can simulate deformation caused by air insufflation and air suctioning by endoscope. Therefore, the following points should be noted.



Do not use water for the model. Please use a water bottle of an endoscope system without water.



5. Operation

5-1 Startup of the main unit

Press the power button. (The lamp on the button will light up blue.)

After a while, the following screen will appear on the monitor. (Screen during boot up)



The home screen is displayed.



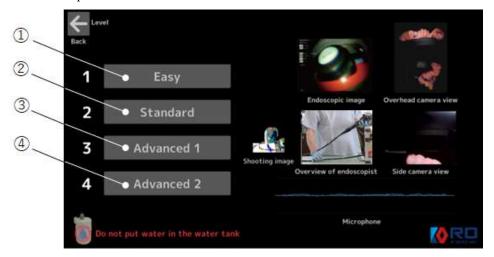
- ①: Move to training
- 2 : Move to education videos
- (3): Move to the result ranking
- (4): Move to the certificate issuing screen
- $(\underline{5})$: Device information.
- (6) : The info of the selected language, scoreboard setting, audio output setting, sound setting and name of hospital. This is also the direct links of each function.



- 7 : The info of Wi-Fi connection
- (8) : Move to setting
- (9): The info of updates
- 10 : Power off button

5-2 Start of training

When you select "Start Training," a screen for selecting the difficulty level will appear, so please select one of the options (1) to (4).



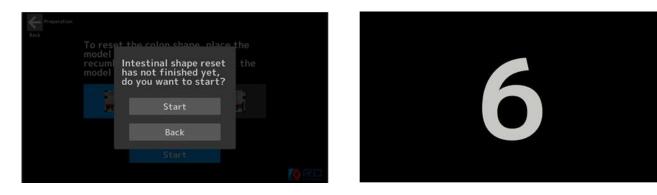
- (1): The abdominal pressure plate moves toward the anus.
- ②: Start with the default settings.
- ③: The difficulty adjustment mechanism moves one step toward the anus.
- ④: The difficulty adjustment mechanism moves to the anal side in two steps.
- *Default setting: Abdominal compression plate is at the center of the abdominal cavity, and the difficulty adjustment mechanism is at the most center of the abdominal cavity.
- XDon't fill the water bottle of endoscope system by water.

To set the colon model to the starting position, as illustrated on the screen, once the main unit is inverted to the left side supine position, it should be returned to its original position. The state is reflected on the screen. If you push "Start" button without following the instruction, the confirmation screen will be displayed.

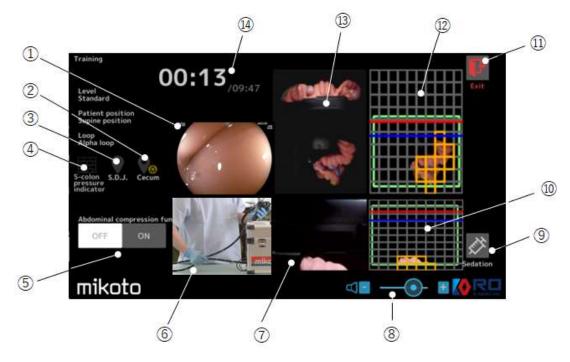
After pushing "Start" button, a 7-second countdown will start. The beep sound starts from the rest 3 seconds. Please start training when it reaches 0 second.







[Training start screen]



1 Endoscopy image

Captures and displays endoscope images.

2 Cecum arrival button

If the unit doesn't recognize the arrival to cecum automatically, please use this button to end the insertion training session.

③Detection icon when passing SDJ

When endoscope passes the SDJ, this icon is highlighted.

(4) Sigmoid colon pressure sensor icon

When the sigmoid colon pressure sensor detect a pressure, the icon is highlighted.



(5) Abdominal compression support On/ Off button

To make the endoscopic procedure easy, the abdominal compression support can be applied by using this button.

⁽⁶⁾ Operator's camera image

Displays the video captured by the operator's camera. Please adjust the camera position so that the movement of your hands is displayed.

⑦ Side camera image

Displays the internal image being captured by the side camera.

- 8 Sound volume
- 9 Sedative icon

If selected, you can disable the human voice or beep that sounds when pain is detected. (1 minute/time) If it is selected again during the elapse of time, it will start again from that point.

10 Image analysis screen of side camera

If the the colon model is elongated beyond the blue line, resulting a point deduction. If the colon model is elongated beyond the red line, a voice or a beep will be heard additionally.

(1) Exit icon

Training can be terminated even in the middle of a training session.

⁽¹²⁾ Image analysis screen of upper camera image

If the the colon model is elongated beyond the blue line, resulting a point deduction. If the colon model is elongated beyond the red line, a voice or a beep will be heard additionally.

⁽¹³⁾ Upper camera image

Displays the internal image being captured by the upper camera.

(14) Training time display

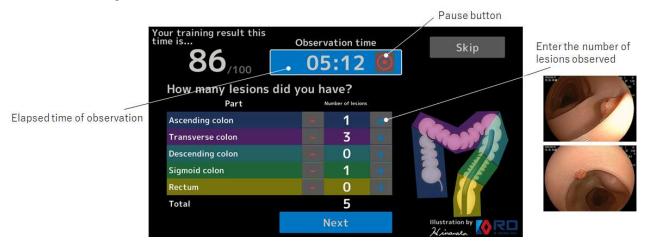
Each training session lasts 10 minutes. The time from the start of training and the remaining time are displayed.

If operator can't reach cecum by 10 minutes, the training session end.



5-3 Observation

After reached to cecum, the observation training starts. Please start withdrawing and observe the mucosa and input the location and the number of detected lesions.

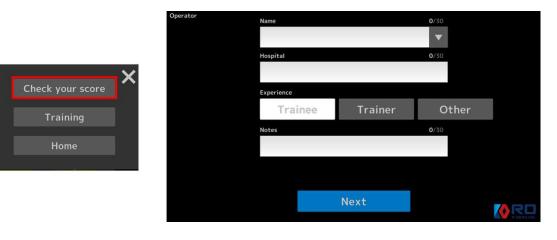


5-4 Operator registration

When the observation evaluation is completed and the "Next" button is pushed, the following screen will appear.

To register the operator info, please select "Check your score". In the registration page, please input the operator's name and your experience.

*If you select "Training" or "Home", the training video will be stored without these information.

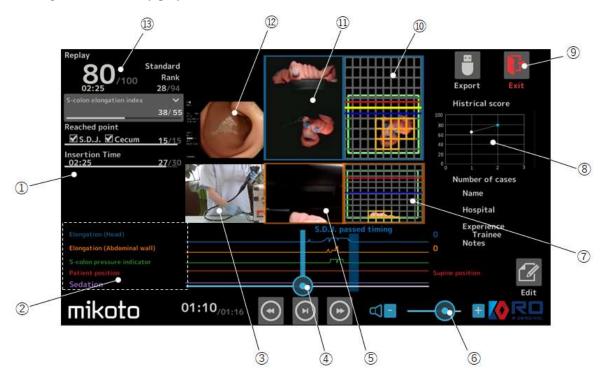


			Name						6/30				Name	0/30
			mik	oto					v				mikoto	*
			В	ack			Ne	xt					Hospital	0/50
													Experience	
													Trainee Trainer	Other
		2	3		5	6				0		Delete	Notes	0/30
		w	е	r	t	у	u	i	0	р	0	Back Space		
Cops Links		s	d	f	g	h	j	k	1	;	:	<		
		x	с	v	b	n			•	?		>	Next	1
1.665	Space	1	#	\$	%	&		()	1	=		HEAL	



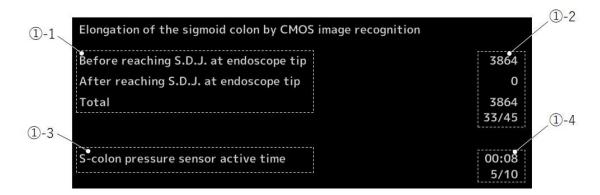
5-5 Replay of insertion training video

Once the name of the Operator who conducted the training is registered, the content of the training is automatically played back.



① Scoring results and observation evaluation

The scores of "Sigmoid-colon elongation index", "Abdominal compression*", "S.D.J. reached", "Cecum reached", "Insertion Time", and score at each scoring point for "Insertion time". * Press "Show detail" button to find the details.



- ①-1: The index shown in ①-2 is calculated by monitoring the sigmoid colon elongation by the upper and side cameras. The higher the value of the index, the lower the score.
- ①-3: The pressure sensor is on the abdominal compression plate. If endoscope pushed the sensor, the duration time was counted and is shown in ①-4. The longer time results lower score.



Enter the location of the lesion and the number of lesions identified and you can check the observation results.

*In the Observation time and observation rate indexes, you can also check the time taken to observe the lesion and the correct observation of the lesion as an observation rate.

You can also check the correctness of the observation results by selecting this index.

		2 7	3 3 8	4 9	5 10	×
	Part		Answer	Correct answer		
Ascending co	olon		3			
Transverse	colon		1			
Descending	colon		0			
Sigmoid cold	on		3			
Rectum			2			
Total			9	10		

2 Graph of each evaluation aspects

The graph shows the time trends of each evaluation aspects.

Elongation (Head)	Analyze the upper camera video and show the degree of the				
Elongation (Tread)	horizontal elongation.				
Elemention (Abdominal wall)	Analyze the side camera video and show the degree of the				
Elongation (Abdominal wall)	perpendicular elongation.				
S-colon pressure indicator	Show the timing that endoscope pressed the pressure				
S-colon pressure indicator	sensor which is on the abdominal compression plate.				
Posture position	Show the patient position.				
Sadation	Show the timing and duration of the activated sedation				
Sedation	function.				

- ③ Operator's camera image
- ④ Replay Slide Bar

The play can be moved to any timing by dragging the slide bar.

- (5) Side camera image
- 6 Sound volume



- ⑦ Image analysis screen of side camera
- (8) Score history The score history of the operator is shown.
- (9) Exit icon

It can be terminated even in the middle of replay.

- 10 Image analysis screen of upper camera image
- (1) Upper camera image
- 12 Endoscopy image
- (13) Score of insertion procedure

After selecting "Exit", "Training", "Ranking" and "Home" buttons are shown.

In the "Ranking", the list of all the recorded procedures and score history graph are shown. Each procedure can be replayed from the list.

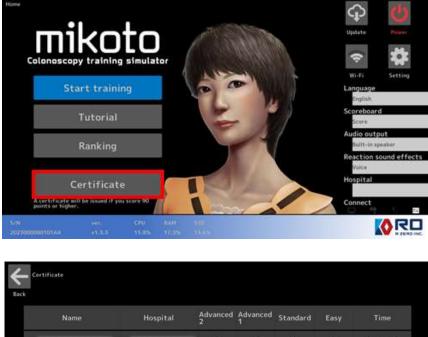
	_ ×
Training	
Ranking	
Kanking	
Home	

Back Rank	Eas		Standard	Score	3	O Trainee O Trainer O Other Average scor 60.46	
	Advan	ced 1	Advanced 2	0 100 200 Tir	300 400 500 ne[sec]	Total number 95	fo
Rank	Score T	Time	Name	Notes	Experience	Hospital	Log
28	80	02:25			Trainee		85
29	80	02:57			Trainee		69 🔺
30	79	02:18			Trainee		88
31	79	02:57			Trainee		78
32	78	04:19			Trainee		75 🐺
77	77	01.74			Trainco		



5-6 Issue of certificates

Select 'Certificates' on the home screen. Next, a list of the results of the practitioners who have scored 90 points or more in any of the difficulty levels in which they have trained will be displayed, so select the list for which you want to issue a certificate.



		78	66	97	93	0:02:19
				100		0:02:57
matsuoka	r0			92		0:03:36
			97			0:02:16
		90				0:01:00
		69		91		0:01:22
		91				0:01:57

A QR code will appear, which you can scan with your smartphone to issue the certificate as PDF data.





		Source
C	ERTIFI	CATE
We hereby the medica	certify the results of al simulator 'mikoto'	training conducted with with following results.
mil	Equipment u toto colonoscopy mo	
	matsuc	ka
Hospital		
	ro	
Score	Standard : 92	2/100
Da Mar/26	6/2024	Total Practice Time 00:03:36
ign	ALL EL	Certified by.

Examples of certificates issue



5-7 Settings

Select "Settings" to view and change various settings.



1) Wi-Fi

Displays Wi-Fi connection status. To make new connection, please select "Add new" and register it. Wi-Fi can also be switched off by unchecking the Wi-Fi box in the top left-hand corner.



X When connecting for the first time, please check the contents of the agreement at (7) and only connect after agreeing to it.



(2) Language

The listed languages are available.

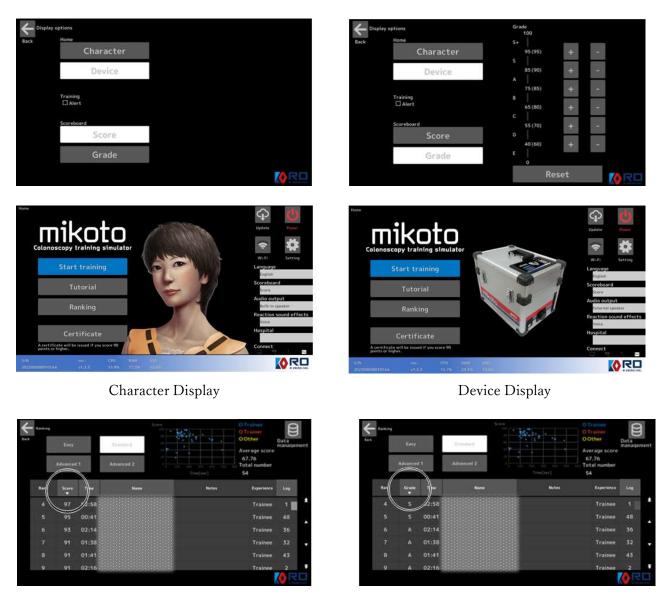
100	denda		
Ci Touc	ch to select		
2	Number	Language	Language
۵	1	Deutsch	German
8	2		English
۵	3	español	Spanish
	4	Français	French
٥	5	हदिी	Hindi
	6	bahasa Indonesia	Indonesian
۵	7	Italiano	Italian
۵	8	日本語	Japanose
۵	9	환국어	Korean
	10	Melayu	Malay
	11	norsk	Norwegian
۵	12	Português	Portuguese
	13	Русский	Rusgian
	14	svenska	Swedish
	15	ไทย	That
۵	16	Türkçe	Turkish
	17	Tiếng Việt	Vietnamesie
۵	18	简体中文	Simplified Chinese
	19	繁體中文	Traditional Chinese



③ Display option

For home screen appearance, two options which are "Character" and "Device" are available. For score board, two options are available. If you select "Score", it is displayed numerically. If you select "Grade", it is displayed alphabetically.

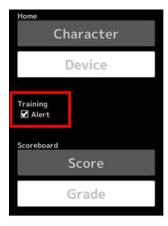
The training "Alert" function is for more detailed training. If it is activated, a yellow line appears in the image analysis screen of upper camera in insertion training. When the colon model is elongated beyond the yellow line, an audible "Pull back" will be output. The yellow line position can be changed by the slide bar beside.

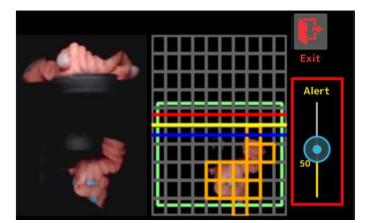


Score Display Grade Display (%The operator's registered names are shown in the line "Name".)



The yellow sliding bar can be set between the blue line where the point reduction starts and the red line where the reaction sound is generated.





Display options screen

Training screen

④ Sound option

The sensitivity of the microphone which is integrated to the operation camera can be changed by the slide bar. To reset it to the default setting, please push "Reset". The detected sound is visualized as a waveform.

"Reaction sound" can be selected from human voice or beep.

"Audio Output" can be selected from built-in speaker of main unit or an external speaker.

ck Microphone		Reaction sound effects Voice
Ĭ _		Веер
		Audio output Built-in speaker
	Reset	External speaker



(5) Sensor sensitivity

The sensitivity of the optical sensors to detect the endoscope location need to be changed depending on used endoscope system because the light power of endoscope depends on it. Please select your endoscope system.



6 Register

Your region, country, facility name, and colon model replacement day can be registered as a memo.

← Reg	ister		
Back	Region Edit	Building name/floor/room number Street name/street number City/Town	
	Country name Edit	State/Province/Region	
	Facility name Edit		
	Colon replacement day Edit	"	



\bigcirc Consent form

Receiving update software and data transfer is handled as the following. If you agree with the terms and conditions, the Wi-Fi function will be available.

Users (hereinafter referred to as "User") of the next-generation medical simulator Mikoto Colonoscopy Model (hereinafter referred to as the "Simulator") hereby consent to the handling of transmitted and received data as defined in (1) below by RZERO Inc. (hereinafter referred to as the "Provider").

- 1. Data to be Transmitted and Received
- a) Transmitted Data: Data registered and recorded by the User as described in Table 1
- b) Received Data: Transmission data described in Table 1 provided by the Provider

2. Data Collection

The Provider may collect data regarding the User as indicated in Table 1 and may transmit this data to servers designated by the Provider. While this data may contain personal information, the User agrees that the collected data will be handled with appropriate measures for privacy and security.

3. Purpose of Data Collection

The User agrees that operational data is collected for purposes such as enhancing the functionality, customization, and analysis of the Simulator.

4. Data Sharing

The User agrees not to share operational data collected by the Provider with third parties, except for academic and research purposes with non-profit organizations. The User also acknowledges that data may be shared in accordance with legal requirements and regulations.

5. Costs Incurred during Transmission and Reception

The User agrees to bear the cost of network preparation, communication fees, and provider usage fees, among other network-related costs, when using the necessary network connection for transmission and reception.

6. Use of Public Networks

If you use public Wi-Fi or a network that requires authentication through a web browser, you agree to accept the security risks associated with using Wi-Fi, and you agree to be responsible for any problems that arise from the use of the network and web browser.



7. System Updates, etc.

For the purpose of updates to the Simulator app, the Provider will provide the received data listed in Table 1 to the User through the User's prepared network. The User understands and agrees that in case of network issues, interruptions, errors, or other malfunctions, data loss may occur, and the User will not seek compensation from the Provider.

8. Withdrawal of Consent

The User has the right to withdraw consent for the transmission of operational data at any time. However, the User agrees that withdrawing consent may limit the receipt of medical examination data as indicated in Table 1, and the effect of withdrawal does not apply retroactively.

9.Governing Law

This consent form is governed by Japanese law.

Item	Contents				
	1. User's registered name				
	2. Registered name of the organization to which the user belongs				
	3. Evaluation points				
	4. Video of use				
Transmission data	5. Registered voice and address details				
	6. Date, time and number of colon exchanges				
	7. Operating time of actual machine				
	8. Number of selections				
	9. Device serial number				
D 111	1. update data				
Received data	2. OS update data				

Table 1 Contents of Transmitted and Received Data



If you agree with the terms and conditions, check "I agree" and select "Next". Wi-Fi setting page appears. Please input SSID and the password.

If the unit is connected to the Wi-Fi, the message "Connection successful" will be displayed.



Add network			
	SSID		
	Password		
		Add	
			(ORD

с	onnection successful	
	Close	



(8) Data management

Displays a list of training information (difficulty, score, training time, etc.). Selected data can be exported to USB memory or deleted. When unplugging the USB, please do so after the message "Exported, please unplug the USB."

Please use a USB memory stick formatted in FAT32.

In the Data protection section, you can select 'Protect' and 'Do not protect' (default setting is 'Do not protect'), and in the Cloud section, you can select 'Enable' and 'Disable' (default setting is 'Enable') for data transmission when connected to Wi-Fi.

			Used 11[GB]			Free 98[G	5]			
	Level			Name	Notes	Esperience	Hospital	Protection	Cloud	
	Advanced 1		01:57			Trainee				11531
82	Advanced 1		02:07			Trainee				*
80	Advanced 1					Trainee				
	Advanced 1		01:25			Trainee				
69	Advanced 1		01:47			Traince				
23	Advanced 1					Trainee				
09	Advanced 1	85	03:39			Trainee				

Da	ta management		Disk 116[Gi	9]		Disk 10.6[storage ca %]	pacity 🗒		ŵ.	
ck		Used 11[GB]		d Free GB) 98(GB)			8]	Export		Delete	
Log	Level	Score	Time	Name	Notes	Experience	Hospital	Protection	Cloud		
	Advanced 1		01:57			Trainee		160			
82	Advanced 1		02:07			Trainee				*	
180	Advanced 1		01:17			Trainee					
	Advanced 1		01:25			Trainee					
169	Advanced 1		01:47			Trainee					
109	Advanced 1		03:39			Traince					

(The operator's registered names are shown in the line "Name".)

(9) System log

The operating time of the unit, the number of trainings of each difficulty, the number of data exported to USB memory stick are shown.

Operating time	40:13:11	
Easy	42	
Standard	54	
Advanced 1	15	
Advanced 2	21	
Export	3	



10 License

Displays information of the licenses which is used by the unit.



(1) User's manual

The latest user's manual is available on web site.





5-8 Update

If the unit detected any software update while it is connected to WI-Fi, it will be shown in the figure below. For the update, please push "Update" button.



6. Exit operation

6 - 1 Power off

To shut down the main unit, press and hold the power button on the unit, or select the "Power" button in the home screen. The blue light on the power button on the unit will blink while the system is being shut down. After the blinking ends, unplug the power plug.

Home	(Salar	Update Power	Power Back		
mikoto		🗢 🗱 Wi-Fi Setting		Power off?	
	25 10	Language English Scoreboard		Yes	
Start training	-4	Score Audio ou put External speaker		No	
Tutorial		Reaction sound effects Voice Hospital			
Ranking		Connect		Do not disconnect the power cable before you confirm power button LED is off.	
	RAM SSD 21.1% 0.0%				MRD.

6-2 Installation of anal cap

To prevent leaking the lubricant, please insert the anal cap to the insertion port.



7. Specification

- Composition of lubricant: Refer to the safety data sheet.
- Lubricant form: Supplied by plastic bottle
- Usage of lithium battery: No
- Size and weight

```
\begin{array}{l} \mbox{Main unit}: W417 \times D290 \times H327 \mbox{ mm} \ (W: Including anal convexity, H: Including handle) \ , 8.7 \mbox{kg} \\ \mbox{Packing box}: W470 \times D360 \times H470 \mbox{ mm}, 12.6 \mbox{kg} \ (Includes all components of the product) \end{array}
```

■ Power : Input : DC 12.0V 5.0A 60W

AC Adapter : AC 100V~240V 50~60Hz 1.5A MAX

- Basic internal PC software : Linax base
- Wireless LAN : IEEE802.11b, IEEE802.11g, IEEE802.11n, IEEE802.11ac (2.4GHz band/5GHz band)

Frequency of operation : 2.4GHz(2412-2472MHz), 5GHz(5180-5700MHz)

Transmit power : 2.4GHz(+14.7dBm(max)), 5GHz(+14.0dBm(max))

Environmental conditions : Indoor use, Altitude : Below 2,000m

Pollution degree of the intended environment : Pollution degree 2

- Operating temperature/humidity : 10~40°C/ 85%RH or less
- Storage temperature/humidity : $-20 \sim 60^{\circ}$ C/ $5 \sim 95^{\circ}$ % (There should be no condensation.)

8. Declaration of conformity

(BG)	С настоящото R ZERO Inc. декларира, че този тип радиосъоръжение R0CT01 е в
Bulgarian	съответствие с Директива 2014/53/ЕС. Цялостният текст на ЕС декларацията за
Duigarian	съответствие може да се намери на следния интернет адреси QR код.
[CS]	Tímto Společnost R ZERO Inc. prohlašuje, že typ rádiového zařízení R0CT01 je v souladu
Czech	se směrnicí 2014/53/EU.
Czech	Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese a QR kód.
[DA]	Hermed erklærer R ZERO Inc., at radioudstyrstypen R0CT01 er i overensstemmelse med
Danish	direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på
Danish	følgende Internetadresse og QR-kode.
(DE)	Hiermit erklärt R ZERO Inc., dass die Funkanlage des Typs "R0CT01" mit der Richtlinie
	2014/53/EU konform ist. Der vollständige Text der EU-Konformitätserklärung ist unter
German	der folgenden Internetadresse und dem QR-Code verfügbar.



【EL】 Greek	Με την παρούσα ο/η Η R ZERO Inc., δηλώνει ότι ο ραδιοεξοπλισμός R0CT01 πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο και κωδικό QR.
[EN]	Hereby, R ZERO Inc. declares that the radio equipment type "R0CT01" is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available
English	at the following internet address and QR code.
【ES】 Spanish	Por la presente, R ZERO Inc., declara que el tipo de equipo radioeléctrico "R0CT01" es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente y código QR.
【ET】 Estonian	Käesolevaga deklareerib R ZERO Inc., et käesolev raadioseadme tüüp R0CT01 vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil ja QR-kood.
【FI】 Finnish	R ZERO Oy vakuuttaa, että radiolaitetyyppi R0CT01 on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa ja QR-koodi.
【FR】 French	Par la présente, R ZERO Inc. déclare que l'équipement radio de type "R0CT01" est conforme à la directive 2014/53/EU. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante et code QR.
【GA】 Irish	Dá bhrí sin, dearbhaíonn R ZERO Inc. go bhfuil an cineál trealaimh raidió "R0CT01" i gcomhréir le Treoir 2014/53/AE. Tá téacs iomlán an dearbhaithe comhréireachta AE ar fáil ag an seoladh idirlín seo a leanas agus QR.
【HR】 Croatian	Ovime R ZERO Inc. izjavljuje da je tip radio opreme "R0CT01" u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi i QR kod.
【HU】 Hungarian	Az R ZERO Inc. igazolja, hogy a R0CT01 típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen és QR-kód.
【IT】 Italian	Il fabbricante, R ZERO Inc., dichiara che il tipo di apparecchiatura radio "R0CT01" è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet e codice QR.
【LT】 Lithuanian	Aš, R ZERO Inc., patvirtinu, kad radijo įrenginių tipas R0CT01 atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu ir QR kodas.
【LV】 Latvian	Ar šo R ZERO Inc. deklarē, ka radioiekārta R0CT01 atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē un QR kods.



【NL】 Dutch	Hierbij verklaar ik, R ZERO Inc., dat het type radioapparatuur "R0CT01" conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden				
	geraadpleegd op het volgende internetadres en QR-code.				
(PL)	R ZERO Inc. niniejszym oświadcza, że typ urządzenia radiowego R0CT01 jest zgodny z				
Polish	dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod				
1 011311	następującym adresem internetowym i kod QR.				
	O(a) abaixo assinado(a) R ZERO Inc. declara que o presente tipo de equipamento de				
(PT)	rádio R0CT01 está em conformidade com a Diretiva 2014/53/UE. O texto integral da				
Portuguese	declaração de conformidade está disponível no seguinte endereço de Internet e código				
	QR.				
	Prin prezenta, R ZERO Inc. declară că tipul de echipamente radio R0CT01 este în				
[RO]	conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate				
Romanian	este disponibil la următoarea adresă internet și codul QR.				
[SK]	Spoločnosť R ZERO Inc. týmto vyhlasuje, že rádiové zariadenie typu R0CT01 je v súlade				
	so smernicou 2014/53/EÚ.				
Slovak	Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese a QR kód.				
	R ZERO Inc. potrjuje, da je tip radijske opreme R0CT01 skladen z Direktivo				
[SL]	2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem				
Slovenian	naslovu in QR kodo.				
[CV]	Härmed försäkrar R ZERO Inc. att denna typ av radioutrustning R0CT01				
	överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om				
Swedish	överensstämmelse finns på följande webbadress och QR-kod.				



URL : https://rzero.jp/mikoto/doc.html



9. Optional parts (consumables)

No	Name	Туре	Quantity	Product
1	Colon model (※)	R0DS	1	Contraction of the second seco
2	Lubricant (※)	R0CMT	50ml×2	Luncert
3	Colon model's Transverse colon hook attachment spring	R0DS-S1	1	
4	Colon model's Sigmoid colon rubber spring	R0DS-S2	1	
5	Colon model's Anal area lubrication panel	R0DS-CP	1	.0.
6	Colon model's anal cap	RSDS-CAP	1	



No	Name	Туре	Quantity	Product
7	Colon model's SDJ section resin cover	R0DS-SDJRC	1	
8	Colon model's Ascending colon section resin cover	R0DS-ACRC	1	
9	Colon model's caecum section resin cover	R0DS-CRC	1	
10	Screws for resin cover	R0DS-RSC	5	
11	Screws for lubrication panels	R0DS-LSC	4	
12	Operator's camera	GP-CAM2FM	1	
13	USB analog video capture	R0-USBVC	1	
14	AC adapter	6A-601DB12	1	

※ : These parts are not included in the parts covered under the free of charge warranty period. Other parts are also not covered if the damage or loss is intentional or negligent - please note that the warranty does not cover these parts.

Inquiries

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