Ink from the model can stain the model – Do not let it touch the simulator and its components. Ink marks on the simulator will be irremovable.

**Instruction Manual**

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This model is designed to assess interrupted suturing by forceps quantitatively and self-learning.

Manufacturer’s note
Read this manual carefully before use and follow all instructions. This model is designed for assessing the simple interrupted skin suturing quantitatively. Any other use, or any use not in accordance with the enclosed instructions, is strongly discouraged. Kyoto Kagaku Co., Ltd. cannot be held responsible for any accident or damage resulting from such use. Please use this simulator carefully and refrain from subjecting it to any unnecessary stress or wear. Should you have any questions or concerns regarding use of this simulator, please contact the distributor you purchased from or Kyoto Kagaku Co., Ltd.

Features
○ Interrupted suturing by forceps can be evaluated quantitatively.

For self learning with evaluation
○ The all movies and assessment data of registered user can be stored for review.
  The assessment scores can be shown as a chart with the user’s learning curve.
  (Each user can review his/her own data only.)
  (1GB memory can store the data of approx 100 sessions.)

○ Administrator can register assessment data as “good example” so that all users can see.

For clinical skills assessment
○ “Examination mode” can be used for evaluating students’ assessment.

This simulator was developed by Kyoto Kagaku Co., Ltd with Takanishi laboratory, Faculty of Science and Engineering, WASEDA University and Center for Integration of Advanced Medicine, Life Science and Innovative Technology.
The project was supported by the project “Practical Realization of Robot Technology” from the Robotics Industry Development Council.
Before you start

**Set includes**

**Set includes and part names**

Before your first use, ensure that you have all components listed below.

- a. Unit base .......................... 1
- b. Simulated Skin · · · · · · · · · · · 40 pcs
- c. ........................................ 1
- d. Software (CD) for setup · · · · · 1
  (Instruction Manual)
- e. CD------------------------------- 1

※At the time of delivery a, and b, are already assembled

Put together or connect the components as shown below.

1. Put USB camera unit on the Unit base.

2. Put the USB cable of the camera into USB port on the frame of the Skin Suturing unit.

3. Attach the Simulated Skin into the Skin Suturing unit.
   (See the page20.)

⚠ Connect to the USB port on the PC.

**Caution**

- Ensure to install the USB camera driver before connect the simulator with PC.
### Platform Information

It is prerequisites for using suture evaluation simulator.

- **OS**
  - Microsoft Windows Vista XP (Over SP2)
  - Microsoft Windows Vista (Over SP1)

- **Hardware**
  - CPU: Intel Pentium III Over 1G Hz
  - Memory: Over 512 MB
  - Hard disk: Over 1GB
  - Display: High Color (Over 16 bit)
  - Desktop: Over 800 \times 600 (Recommended: over 1024 \times 768)
  - Drive: CD-ROM Driver (For Installation)
  - Interface: USB 2.0 Port (For Connection of the Suture Simulator)

- **Software**
  - Windows Media Player over 9
  - Internet Explorer over 6

### DOs and DON'Ts

<table>
<thead>
<tr>
<th>DOs and DON'Ts</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Handle with care</strong></td>
<td>The materials of the model are special compositions of soft-resin which could be damaged in case of fall.</td>
</tr>
<tr>
<td>Cleaning</td>
<td>Clean the surface of the skin or the simulator with wet, soft and mildly soapy water. Never use organic solvent such as paint thinner.</td>
</tr>
<tr>
<td>In case that the body of machine gets heat up, any burnt or smoke is perceived, promptly pull out the USB cable. Contact the distributors or KYOTO KAGAKU Co., Ltd for repair.</td>
<td>The Suture Evaluation Simulator Skin can remain usable even though the color of the unit parts may fade over time.</td>
</tr>
<tr>
<td>Please use the Simulator carefully and refrain from subjecting it to any unnecessary stress or wear.</td>
<td>Don't mark on the model and other components with pen or leave painted materials contacted on their surface. Ink marks on the Simulator will be irremovable.</td>
</tr>
<tr>
<td>Store the Simulator at room temperature, away from heat, moisture and direct sunlight.</td>
<td>Never store the Simulated skin in piles or stress. Store the Simulator in its storage case when not in use.</td>
</tr>
</tbody>
</table>
**Preparation**

Installation of the Driver (CD)

**Caution**
Never fail to install the driver-soft of the camera, before connect this simulator with PC.

1. **Install the USB camera driver**

   ① First, install the driver-soft (CD) of the camera. Put the setup CD into drive, and open the folder “camera”.

   ② Double-click on “camera_setup.exe”, in camera folder.

   ③ Then starting installation, follow the screen’s instructions. Click “Next.”

   ④ Select “Complete”, and then click “Next.”

---

[Diagram showing steps of installation]
5 Click “Next.”

6 Click “Continue.”

7 Click “Finish,” then finish installing of the driver-soft.
After installing the USB camera driver, connect the Suture Evaluation unit’s USB cable to PC.

⚠️ Connect to the USB port on the PC.

※ The sample screen shots in this manual are of Windows XP. Window appearance or procedures may vary depending on OS or other system settings.

⑧ When the simulator connected to the PC, window opens as shown above. Click “Install the software automatically”, then choose the “Next.”
Installation of the simulator unit

2 Installation of the Suture Evaluation Simulator

① Ensure the setup CD in the drive.
   Click “No, not this time.”
   Click “Next.”

② Select “Install from a list or specific location,”
   select “Next.”

⑨ Click “Continue Anyway”

⑩ Click “Finish,” complete the installation.
   Set up is to begin installing Suture Evaluation
   Simulator automatically, then click “Next”
Preparation

Installation of the driver

③ Select “Search the Removable Media”, select “Next.”

④ Installation starts automatically, please wait a minute.

⑤ After finished the installation, click “Finish”.

⑥ In a short time, screen like the upper picture is appeared at the lower right on the monitor.

※ If connecting the USB of the suture simulator into other USB port, installation procedure is required again (See on page 6 ~ page 8).
3 Confirmation and Updating of the Driver Software

① Please open the “Control Panel” window, and then select “System and Security.”

② Select “Device Manager.”

服务机构

USB is unrecognized.

③ If upper window is opened, USB is unrecognized.

服务机构

USB is recognized.

③ As like the upper window, installation is OK.
Complete by selecting “X” on the right upper side.
4 Click on “Microchip USB Demo Board (C) 2007.”

5 Select “Browse my computer for driver software.”

6 Click “Browse” and select the disk drive that allows you to insert CD, and then select “Next.”
7 Select “Install this driver software anyway.”

8 Select “Close”, and then finish.
Installation of the Software

4 Installation of the software

1. After installation of the Driver Software, install the Suture Simulator Software. Insert the CD for "Setting up" in the driver, then open the folder "software."

2. Double-click on "soft setup.exe" in software folder.

3. Select "Next."

4. Select "Next."

5. Select "Next."
Preparation

Installation of the software

⑦ Click "Next"

⑧ Click "Install" with ensuring the place of the installation. Installation is automatically, please wait a minutes.

※ This screen might appear differently on your PC, find the "OK" button and click it.

⑨ Click "OK."

⑩ Click "Finish" to exit set up.

⑪ Next step is "Windows Media 9 VCM" setup. Click "OK." (Windows media Video 9 is the free soft which is necessary to motion of the program.)

Windows Media Video 9 is free soft which is the act of putting the program onto a computer system so that it can be executed.

⑫ Click "Yes."
5 Administrator Setting

Windows Vista, Windows 7

1 Right-click "Laparoscopic Suture Evaluation Simulator" icon on the desktop.

2 Check the box where it indicates "Run this program as an administrator". Then click OK.
6 Un-installation of the driver and the soft

① Open the “Control panel.”
Double-click the icon “Add or Remove Programs.”

② Open the window “Add or Remove Programs”, delete the three applications as following.

[Program]
- Windows Media Video 9 VCM
- CMS-V19 driver
- The Laparoscopic Suture Evaluation Simulator 1.0
Training

Skills intended to be assessed
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How to use
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10 Change evaluation value weighting .... P.35
11 Evaluation data management .......... P.36
12 Examination data management .......... P.37
1. **Skills intended to be assessed**

- **Suture intended to be assessed**
  - Suture: Simple interrupted suture
  - Ligature: Square knot

Make three-stitch sutures as shown above.

_Caution_
- Proper evaluation cannot be obtained when suture is made with unintended methods, such as mattress suture or continuous suture.

2. **Evaluation function / Evaluation items**

- **Evaluation function**
  This simulator evaluates the skin suturing skills by a unique evaluation function shown below.

\[
E_{\text{Suture}} = \omega_T I_T + \omega_{\text{FoT}} I_{\text{FoT}} + \omega_{\text{JuT}} I_{\text{JuT}} + \omega_{\text{DbS}} I_{\text{DbS}} + \omega_{\text{EqD}} I_{\text{EqD}} + \omega_{\text{WoD}} I_{\text{WoD}}
\]

(総合点)

- **Evaluation items**
  - 1. Time
  - 2. Force on Tissue
  - 3. Suture Tension
  - 4. Distance between Stitches
  - 5. Equidistance from the wound edge
  - 6. Wound Dehiscence

<table>
<thead>
<tr>
<th>Index</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I_T)</td>
<td>Index of Completion Time</td>
</tr>
<tr>
<td>(I_{\text{FoT}})</td>
<td>Index of Force on the Tissue</td>
</tr>
<tr>
<td>(I_{\text{JuT}})</td>
<td>Index of Judging Tension</td>
</tr>
<tr>
<td>(I_{\text{DbS}})</td>
<td>Index of Distance between Sutures</td>
</tr>
<tr>
<td>(I_{\text{EqD}})</td>
<td>Index of Equidistance from the wound edge</td>
</tr>
<tr>
<td>(I_{\text{WoD}})</td>
<td>Index of Wound Dehiscence</td>
</tr>
</tbody>
</table>

重み係数 \(\omega_{T,\text{FoT},\text{JuT},\text{DbS},\text{EqD},\text{WoD}}\) : Weighting Coefficients

(Reference)

Training

Skills intended to be assessed

3 Normalization of the evaluation items

Each evaluation item in the evaluation function was normalized by using the collected data of surgeons, performance and those of unskilled persons. The average of the surgeon group’s data is set to “1”, while the average of the unskilled group’s data was set to “0”, and then they were linearly-connected. Each evaluation parameter was normalized as follows.

1.1 Normalization of the completion time
For the surgeons group, the average time required to complete the designated skin suturing procedure was 107 [s], while that of the unskilled group was 398 [s]. Thus, when the completion time is 107 [s] or less, IT is “1”, and when it takes 398 [s] or more, IT is “0”. When the time is between 107 [s] and 398 [s], IT is found by the calculating formula shown below.

\[
I_T = 1 - \frac{T - M_{IT}}{M_{IT,unskilled} - M_{IT,skilled}} \begin{cases} 
1 & \text{if } 1 < T \leq 1; \; I_T = 0 \\
0 & \text{if } T > 1; \; I_T = 1 
\end{cases}
\]

Fig.1.1 Time Normalization

1.2 Normalization of force on the tissue
The data of the force applied on the tissue during the suturing operation was normalized according to “the smaller, the better” principle.

\[
F_T = \int \left( |F_x(t)| + |F_y(t)| + |F_z(t)| + |F(t)| \right) dt
\]

Fig. 1.2 Normalization of Force on the Tissue

1.3 Normalization of Suture Tension
The tension caused by the ligature was also normalized, according to the principle that the smaller the deformation of the simulated tissue, the better the result.

\[
I_{T_J} = 1 - \frac{F_{T_J} - M_{T_J}}{M_{T_J,skilled} - M_{T_J,unskilled}} \begin{cases} 
1 & \text{if } 1 < F_{T_J} \leq 1; \; I_T = 0 \\
0 & \text{if } F_{T_J} > 1; \; I_T = 1 
\end{cases}
\]

Fig.1.3 Normalization of Suture Tension

1.4 Normalization of Spaces between Stitches
Distances are measured between the centroid of each stitch. The Distances are measured between the centroids of the stitches were used for normalization, because the smaller the values is, spaces between the stitches are closer to equal.

\[
\sigma = \frac{1}{N} \sum_{i=1}^{N} \left( d_{i} - \bar{d} \right)^2 \\
I_{DS} = 1 - \frac{\sigma - M_{DS,unskilled}}{M_{DS,skilled} - M_{DS,unskilled}} \begin{cases} 
1 & \text{if } 1 < \sigma \leq 1; \; I_T = 0 \\
0 & \text{if } \sigma > 1; \; I_T = 1 
\end{cases}
\]

Fig.1.4 Normalization of Spaces between Stitches
4 About weighting coefficients

1. Time \( I_T = 1 \)
2. Force on Tissue \( I_{FoT} = 1 \)
3. Suture Tension \( I_{StT} = 1 \)
4. Distance between Stitches \( I_{dbS} = 1 \)
5. Equidistance from the wound edge \( I_{EqD} = 1 \)
6. Wound Dehiscence \( I_{WoD} = 1 \)

⚠️ Caution ⚠️

- The weighting coefficient values are set as the default. The values can be changed by the administrator only.
1. Attachment and removal of a simulated skin

1. Push the latch on the side of the suture model and open the cover. Set the suture pad like the figure above.
2. Close the cover and set the suture pad.

⚠️ Caution
- Pay attention to direction, the upper and the lower of the Suture skin.
- The rubber can be damaged if the plate is forcibly inserted or removed without being slid.

2. Use a black suture thread

When the simulator evaluates the sutured wound by image processing, PC will not recognize lighter colored thread properly. Therefore, be sure to use a black suture thread for evaluation and training with this simulator.

⚠️ Caution
- Recommend a standardized needles and threads as the above picture.
3 Start up the Simulator-soft

Before starting up the suture simulator soft, connect the Suture Simulator USB cable into the PC.

① Click “Camera Setting”

② Rectangle is shown as recording area. Click the center of the wound to set correct area.

③ Click “OK” to complete the setting.

*Camera setting is required only at first use.
Training

4 The process of the Suture Evaluation

① After start up the suture simulator soft, select Evaluation mode or Examination mode with registered account number. (About login: See on the page 22 “How to use the software.”)

② Confirm the check-box “keep movies” checked when recording the suture operations, and set the USB camera like the above figure.
※ Even if no recording, it is no influence on evaluating the skin suturing skills.

③ Set a needle with needle-folder, click the start button in Examination mode. Start suturing after “Go” sign is sown in the screen.

④ After making three-stitch, click the “finish” button. (Cut an excessive thread after click the finish button.) Image evaluation dialog box is shown, evaluated the image according to the image evaluation system. When USB camera has no connection, image evaluation dialog box isn’t shown.

• Be sure to make three-stitch suturing with Simple interrupted suture and Instrument tying. Image Evaluation Dialog Box①

⑤ Image evaluation: The image is evaluated. See on the page 23 “How to assessment.”

⑥ No image evaluation: Score is shown in evaluation mode screen which is judged from “Time,” “Force on tissue” and “Suture tension.”
5 Image Evaluation Procedure

**Manual mode**

1. Click the check box "Distinction of suture thread".

   - [ ] Good
   - [X] Whole of the wound is not covered
   - [X] Out of focus

   Evaluation mode screen

2. Confirm the wound is in the image of the USB camera and click "Image evaluation".

   • The wound must be in the image of the USB camera and come into focus in order to evaluate the result correctly.

3. Click both the needle insertion points and emerging points on each stitch.

4. Click OK and next window will appear.

5. If the recognition of thread is incorrect, adjust the thread and click the "Re-evaluate".
Training

How to use

Automatic mode

1. Confirm the wound is in the image of the USB camera and click "Image evaluation".

Evaluation mode screen

2. Remove the check of "Distinction of suture thread".

3. Click the "Image evaluation" button and next window will appear. The wound will be marked with blue and the suture thread will be marked with red.

4. Cut the unnecessary threads of the knot like the figure "Good" above.

5. Click the Re-evaluate button if the recognition of the threads is incorrect.

6. Confirm the correct recognition of threads and click OK. The score will be shown on the display.
1. Login

1. Login as administrator
   By checking this box, the Account name becomes un-editable. Default password is set to "crossnet".
   ※ The administrator should change the password after the software is installed.

2. Login as guest
   By checking this box, both Account name and Password are set to "guest", which are automatically entered.

3. List of accounts
   Show all registered accounts.

4. Login
   Login the system by checking the entered Account name and Password against the database. When the login is complete, the TOP Screen will be displayed.

5. Account registration
   Open a new Account Registration dialog box.
2 User Account registration

① Account name (one-byte alphanumeric characters, 35 characters at maximum)
   Enter an account name to be used for login.
   (If the same name has already registered, the new one cannot be accepted.)

② Password (one-byte alphanumeric characters, 4 characters at minimum, 35 characters at maximum)
   Enter a password.

③ Password confirmation (one-byte alphanumeric characters, 4 characters at minimum,
   35 characters at maximum)
   Enter the same password again.

④ Name (double-byte or one-byte kana/alphanumeric characters, 35 characters at maximum)
   Enter your name.

⑤ Course level (double-byte or one-byte kana/alphanumeric characters, 35 characters at maximum)
   Enter your current course level.

⑥ Account registration
   Register the account in the database. An automatic login follows.

⑦ Cancel
   Cancel the Account registration.
3 Top screen

1. Edit your account settings
   This link is not shown when login is done as guest.
   Current account details can be edited.

2. Evaluation Mode
   This mode is unselectable when login is done as administrator.
   Evaluation result cannot be saved when login is done as guest.

3. Learning Mode
   This mode is unselectable when login is done as administrator.
   When login is done as guest, only the “Model Techniques” video can be watched.

4. Examination Mode
   This mode is selectable only with login as guest.

5. Administrator menu
   This menu is shown only when login is done as administrator. The following modes are options.
   Edit evaluation value weighting: Change weighting of each evaluation item in the evaluation function.
   Evaluation data management: Browse/delete user account and evaluation data.

6. USB camera
   Connection status of the USB camera.
   When it says “disconnected”, suture performance cannot be recorded on video for image evaluation.

7. USB suture model
   Connection status of the USB suture model.
   When it says “disconnected”, neither “Evaluation Mode” nor “Examination Mode” is selectable.
4 Edit your account settings

Edit registered account information.

①Account name
Account name is un-editable.

②Password (one-byte alphanumeric characters, 4 characters at minimum, 35 characters at maximum)
Enter a new password.

③Password confirmation
(one-byte alphanumeric characters, 4 characters at minimum, 35 characters at maximum)
Enter the same new password again.

④Name (double-byte or one-byte kana/alphanumeric characters, 35 characters at maximum)
Enter a new name.

⑤Course level (double-byte or one-byte kana/alphanumeric characters, 35 characters at maximum)
Enter your current course level.

⑥Update
Save the data and update the account information in the database.

⑦Cancel
Cancel the Account editing.
5 Evaluation Mode

Suturing operation with registered account (or guest-login).
※Refer to “Skin suturing evaluation procedure” for actual procedures of suture performance evaluation.

1. Time elapsed
   Indicates the time elapsed.

2. Chart data
   Chart data is shown (horizontal axis: time, vertical axis: skin displacement).
   Skin displacement along five axes is dynamically graphed by color corded chart;
   X+ (white), X- (blue), Y+ (green), Y- (yellow), and Z (red).

3. Scores
   Itemized scores

4. Save video
   When this check box is checked, moving pictures captured by the camera will be saved.
   When log in is done as guest, “Save video” function is unusable.

5. Camera
   Images captured by the USB camera are shown. The same moving pictures are saved by the “Save video” function.

6. Start (Finish)
   Evaluation starts after three-second countdown.
   When the suture performance is complete, click the same button “Finish” to close the session.

7. Cancel
   Cancel evaluation. Scores will not be displayed for an aborted operation.

8. Evaluation image
   The picture evaluated for giving scores on distance between sutures, equidistance from the wound edge, and wound dehiscence, is shown.

9. Close
   Close the window.
6 Learning Mode (login as a registered user)

Registered user’s data and the “Examples” can be read.

1. Your evaluation information
   Statistics of evaluation data of the login user are displayed.

2. Evaluation data list
   Evaluation data of the login user are displayed.
   Data can be sorted by clicking the title of a key evaluation item.

3. Learning curve
   Learning curve of the login user is shown.

4. Replay evaluation data
   Replay a selected evaluation data of the login user (Data replay).

5. List of Examples
   Evaluation data registered in Examples is shown in a list form.

6. Play Examples’ data
   Replay a selected Example’s data (Data replay).

7. Close
   Close the window.
Learning Mode (login as guest)

When login as guest, can be checked only “example data.”

1. List of Examples
   Evaluation data registered in Examples is shown in a list form.

2. Replay Examples’ data
   Replay a selected Example’s data (Data replay).

3. Close
   Close the window.
① Time elapsed
Indicates the time elapsed.

② Chart data
Chart data is shown (horizontal axis: time, vertical axis: skin displacement). Skin displacement along five axes is dynamically graphed by color corded chart; X+ (white), X- (blue), Y+ (green), Y- (yellow), and Z (red).

③ Movie
The recorded video is replayed.

④ Evaluation information
User information of the session's operator and the itemized evaluation scores are shown.

⑤ Evaluation image
The picture evaluated for giving scores on distance between sutures, equidistance from the wound edge, and wound dehiscence, is shown.

⑥ Close
Close the form.
9 Examination Mode

Evaluation Mode is for students’ achievement examination. Set up the examinee data and evaluate suture operation as a guest. After operation, its score doesn’t appear. Only an administrator can check scores.

1 Examinee registration
   When the Examination Mode is selected, the “Examinee registration” dialog box will open.

2 ID number (one-byte alphanumeric characters, 35 characters at maximum)
   Enter the examinee’s ID number.

3 Name (double-byte or one-byte kana/alphanumeric characters, 35 characters at maximum)
   Enter the examinee’s name.

4 Register
   Register the examinee and move on to the Examination Mode Screen.

5 Cancel
   Close the form.
Training

Screen and Functions

※Refer to "Skin suturing evaluation procedure" for actual procedures of suture performance evaluate

شع_times elapsed
Indicates the time elapsed.

Chart data
Chart data is shown (horizontal axis: time, vertical axis: skin displacement).
Skin displacement along five axes is dynamically graphed by color corded chart; X+ (white), X- (blue), Y+ (green), Y- (yellow), and Z (red).

Examinee information
Registered examinee information is shown.

Save video
When this check box is checked, moving pictures captured by the camera will be saved. When log in is done as guest, “Save video” function is unusable.

Camera
Images captured by the USB camera are shown. The same moving pictures are saved by the “Save video” function.

Start (Finish)
Evaluation starts after three-second countdown. When the suture performance is complete, click the same button “Finish” to close the session.

Cancel
Cancel evaluation.

Change examinee
Open the examinee registration window and to reset the examinee.

Evaluation image
The picture evaluated for giving scores on distance between sutures, equidistance from the wound edge and wound dehiscence, is shown.

Close
Close the window.
Change evaluation value weighting in Examination mode at will as an administrator.

1. Default values
   Reset the all weighting coefficients to the default values.

2. Update
   Save the entered weighting coefficients and make them reflected in the calculation.

3. Cancel
   Cancels the change of weighting coefficients, and closes the window.
11 Evaluation data management

Management use account and assessment data as an administrator. Register “Example data” in this screen.

1. User list
   All data of administrators are shown.
   With double-click on a line of individual data, all the evaluation data of the selected user will be show in the Evaluation data list box. Data can be sorted by clicking the title of a key evaluation item.

2. Delete user
   Delete a selected user account (with Ctrl key, multiple users can be selected together).

3. Evaluation data list
   A list of evaluation data of the user selected in the User list is shown Data can be sorted by clicking the title of a key evaluation item.

4. CSV export
   Export the selected evaluation data in CSV format.

5. Example data registration
   Register the selected evaluation data as an Example.
   ※ “Examples” accept up to 5 set of evaluation data.

6. Replay evaluation data
   Replay the selected evaluation data (Data replay).

7. Delete evaluation data
   Delete the selected evaluation data (with Ctrl key, multiple lines can be selected together).

8. Close
   Close the window.
12 Examination data management

Data management the operation in Examination mode as an administrator.

1. User list
   All registered examination data are shown. Data can be sorted by clicking a key item name.

2. CSV export
   Export the selected examination data in CSV format.

3. Replay examination data
   Replay a selected examination data (Data replay).

4. Delete examination data
   Delete a selected examination data (with Ctrl key, multiple lines can be selected together)

5. Close
   Close the window.
Caution

Do not leave this manual in contact with manikin skin.
Ink marks will be indelible, due to pigment infiltration.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11230-010</td>
<td>Simulated skin 40pcs</td>
</tr>
</tbody>
</table>

Simulated skin

・For inquiries and service, please contact your distributor or KYOTO KAGAKU CO., LTD.

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