solutionist+

User manual



aram
Human Vision System

Contents

Download & Install 3

How to connect 4

Setting 7

Customer Management 10

Analysis

A. Skin 14

1. Skin Analysis 14
2. Skin Analysis Summary 20

B. Hair 21

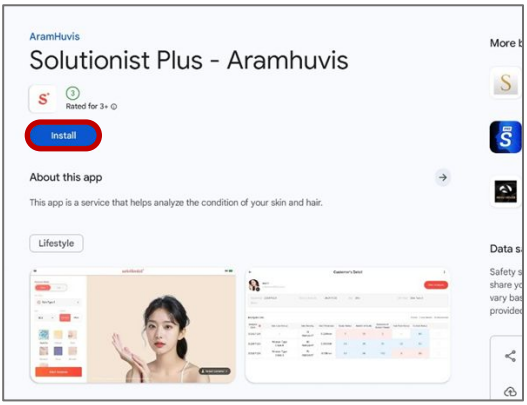
1. Hair Analysis 21
2. Hair Analysis Summary 30

View Mode 31

※ Note

- The photos in the manual may differ from the actual photos.
- The information and future improvements contained in this manual may be revised without notice.
- The screen images may differ depending on the OS.

Download & Install



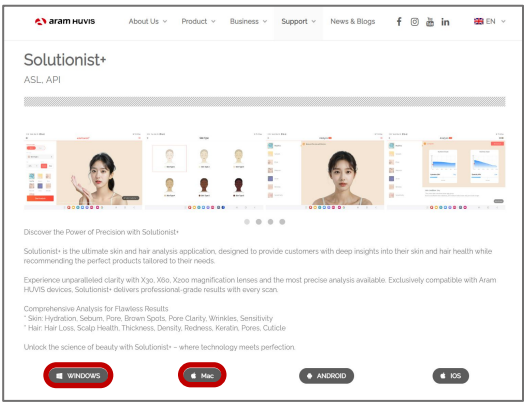
1 Tablet device user

iOS

Go to **"App Store"** and search **"Solutionist Plus"** to download the program.

Android

Go to **"Google Play Store"** and search **"Solutionist Plus"** to download the program.



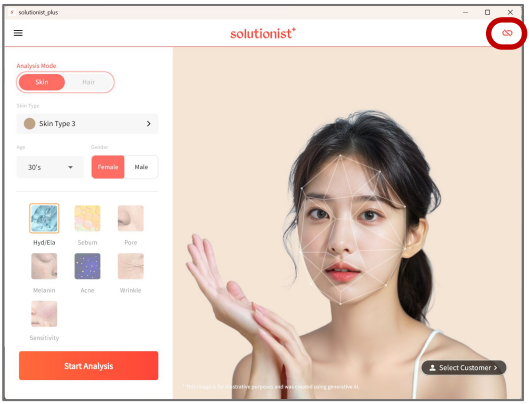
2 PC user

Please visit the following website:
http://www.aramhuvis.com/downloads

Find **"Solutionist Plus"** and download the version that is compatible with your PC.

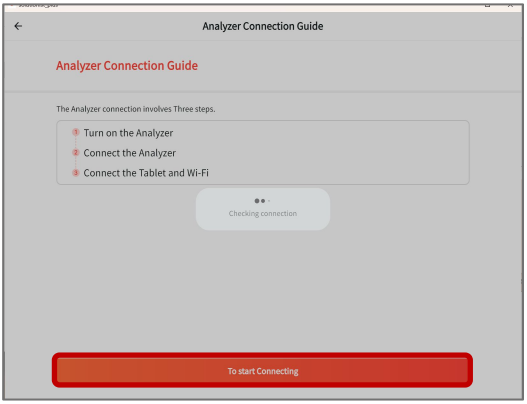
Analyzer connection guide

How to connect



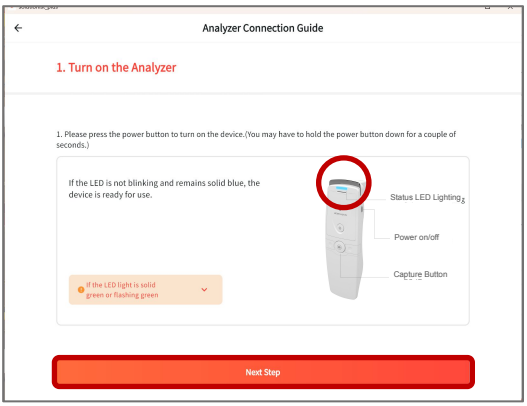
1 Run Solutionist+

Select [ ] button to open Analyzer connection guide.



2 Analyzer connection Guide

Tap/Click the **[To start Connection]**.



3 Turn on the Analyzer

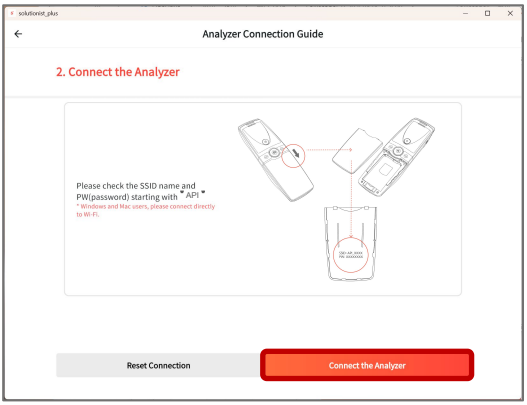
1. Please press the power button to turn on the device.
(You may have to hold the power button down for a couple of seconds.)

2. If the LED is not blinking and remains solid blue, the device is ready for use.

3. Please Tap/Click the **[Next Step]**.

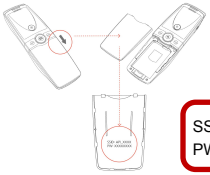
Connect the Analyzer

How to connect

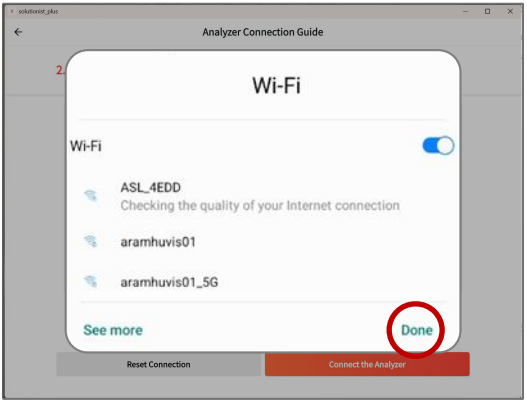


4 Connect the Analyzer

1. Wi-Fi name & password must be same and the format is **" API_XXXX "**
2. Please tap/click the **[Connect the Analyzer]** button.

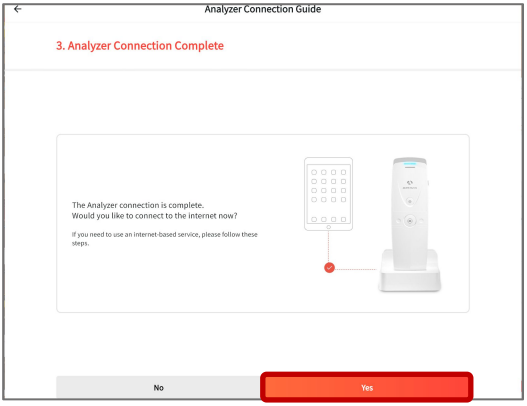


SSID: **API_XXXXXX**
PW: **XXXXXXXX**



5 Connect the Analyzer and Wi-Fi.

Please go to network setting to set up the Wi-Fi connection. Connect the Analyzer by selecting Wi-Fi and entering the password.



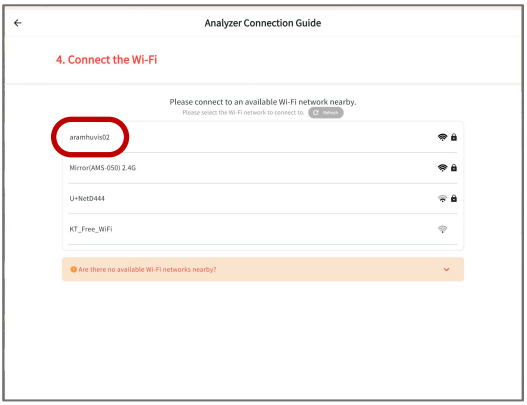
6 Analyzer Connection Complete.

If you need to use an internet-based Service, Please Tap/Click the **[Yes]** button.

For firmware version V1.01.02 and below, the process will complete at this stage without any further instructions.

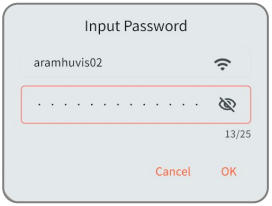
Connection Complete

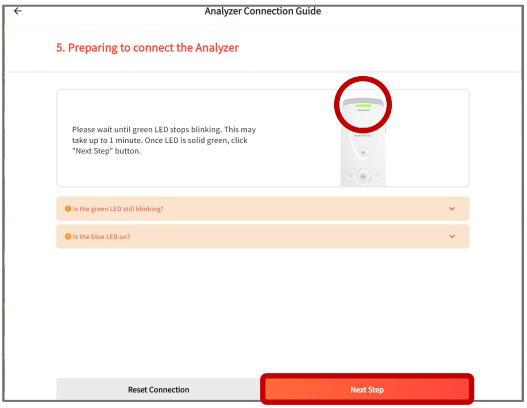
Please make sure to connect to Wi-Fi within the app.



7 Connect to Wi-Fi

Select a Wi-Fi network from the list of available connections.





8 Preparing to connect the Analyzer

1. Please wait until green LED stops blinking.



2. Please Tap/click the **[Next Step]** button.



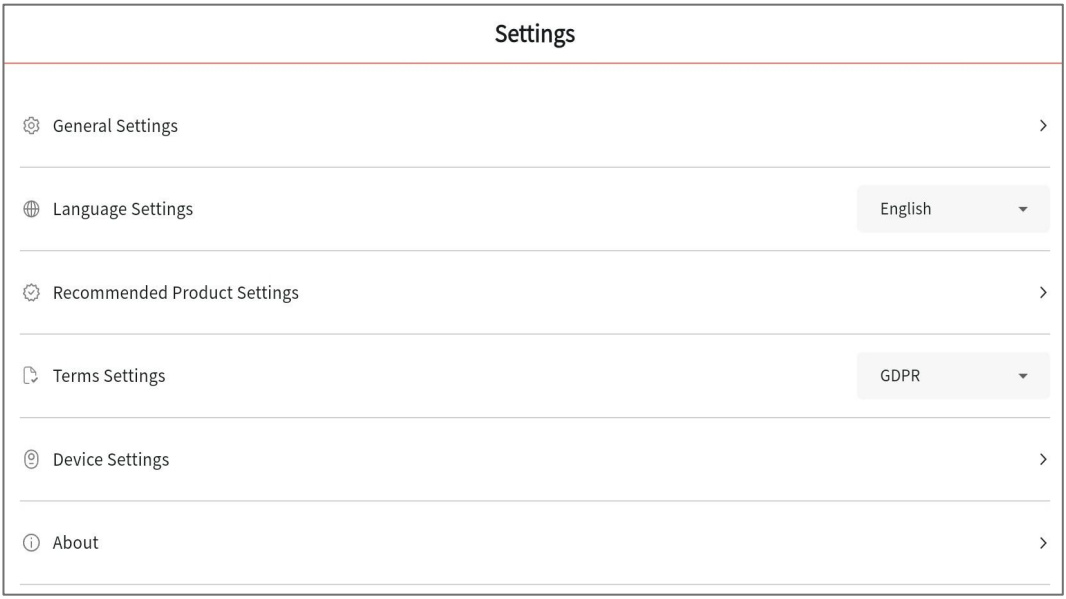
9 Connect the Device and Wi-Fi

1. Connect the Analyzer to the connected Wi-Fi and entering the password.
2. Tap/click the **[Connect the Wi-Fi]** button.

Settings menu

Settings

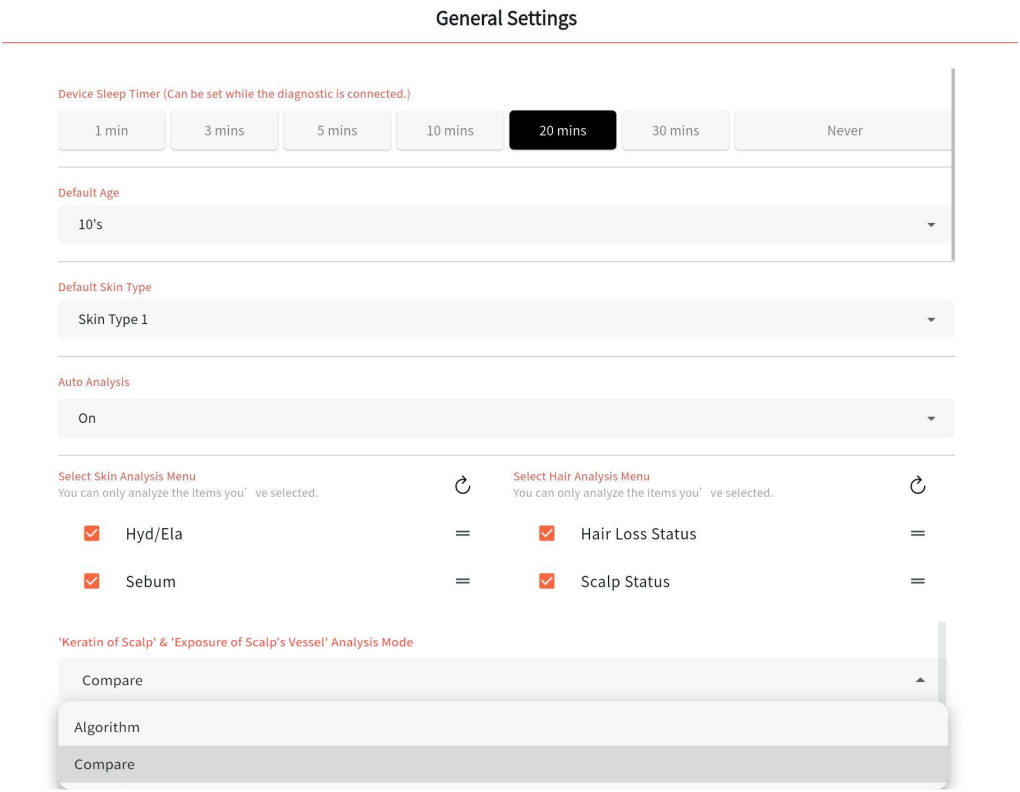
You can set it after connecting the Analyzer device.



1 Settings

- **General Settings :** Configure basic options such as Analyzer's auto-off settings, retake timer, etc.
- **Language Settings :** Set up multiple languages.
- **Recommended product Settings :** Set recommended products.
- **Terms Settings :** Set terms and conditions agreement.
- **Device Settings :** Configure the Analyzer and Wi-Fi.
- **About:** Displays the app version and provides access to the user manual via QR code or the Download button.

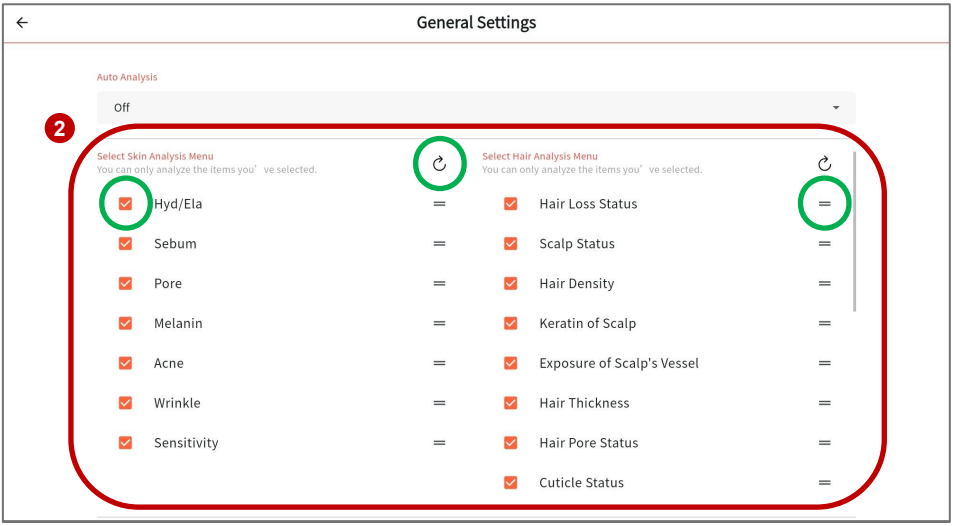
General Settings

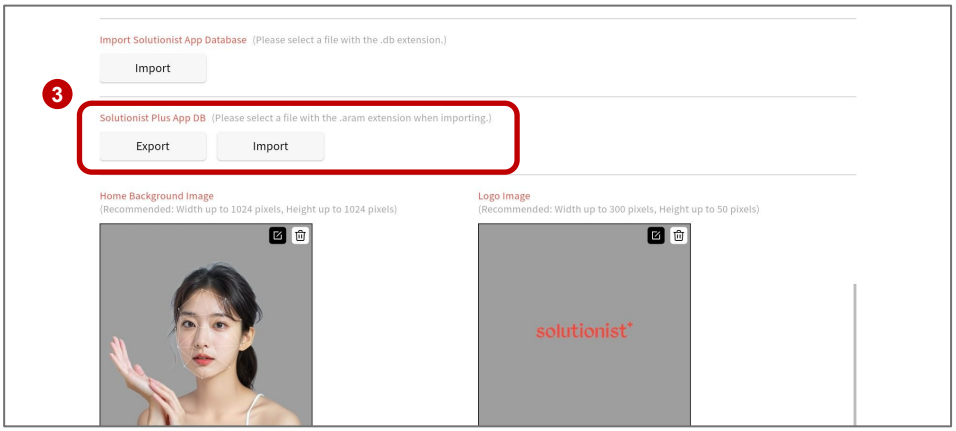


1 General Settings

- **Analysis Device Auto-Off** : Set the time after which the analysis device automatically turns off.
- **Default Age Group** : Set the target age group for comparative analysis.
- **Default Skin Type** : Set the default skin type.
- **Automatic Analysis** : Choose whether to enable or disable automatic analysis. When enabled, analysis will automatically run after capturing an image.
- **Analysis Method for Keratin Amountand Vascular Exposure** : Choose the analysis method for keratin amount and vascular exposure. The default method uses an algorithm.

General Settings





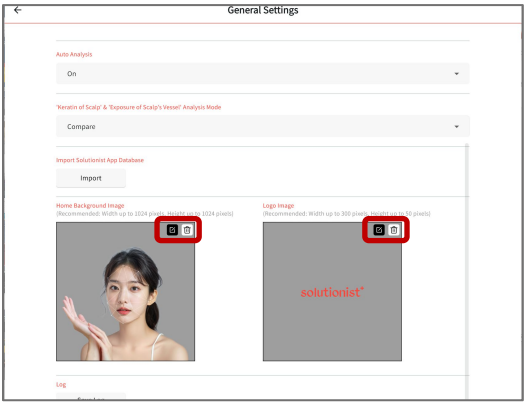
2 Select Analysis & Change Order

- Enable or disable analysis items using the checkboxes.
- Change the analysis order using the (≡) icon.
- Tap the reset icon at the top right to restore all settings to default.

3 Export & Import Function

- **Import from Existing App :** Select **[Import]** to retrieve the app database (solutionist.db) that was previously exported and saved from the original Solutionist app.
- **Export App Database :** Select **[Export]** to save the app database as solutionistPlus.aram.
- **Import from Solutionist+ :** Select **[Import]** to retrieve the web database (solutionistPlus.aram) saved from Solutionist+.

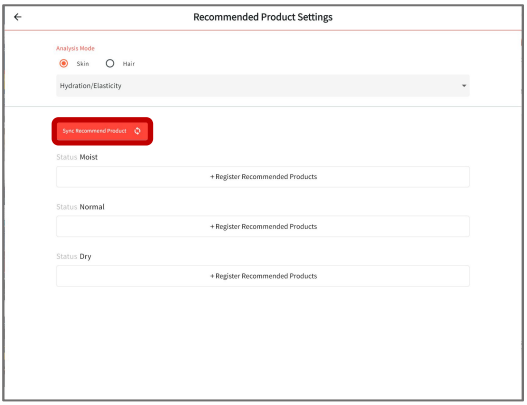
General Settings



4 Home Screen Settings

1. You can add or remove images on the home screen.
2. You can also add or remove the logo image on the home screen.

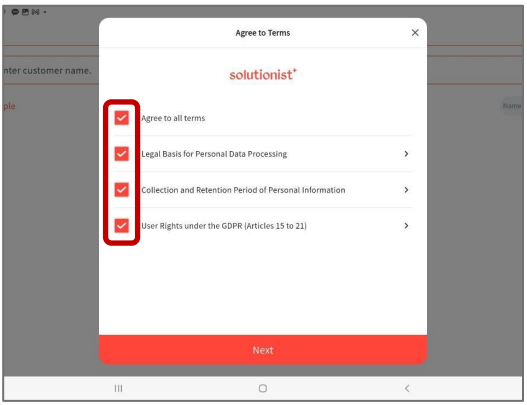
General Settings



5 Recommended Products Settings

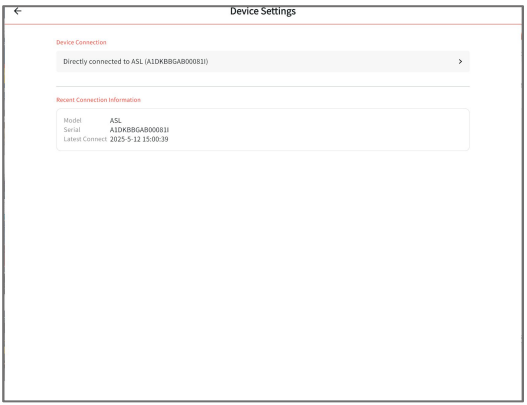
Recommended Products Settings

1. **Product Registration** : Register recommended products by skin type and hair type. After an analysis, you can view the recommended products based on the analysis results.
2. **Synchronization :** Select **[Sync Recommended Products]** to synchronize the recommended products. The system connects to the server to retrieve the registered products.



6 Terms Agreement

- **Personal Data Processing** : Please use the **On/Off** checkboxes to agree to the legal basis for personal data processing—including collection and storage functions.
- **GDPR User Rights** : Please use the **On/Off** checkboxes to agree to the user rights as set out by GDPR.

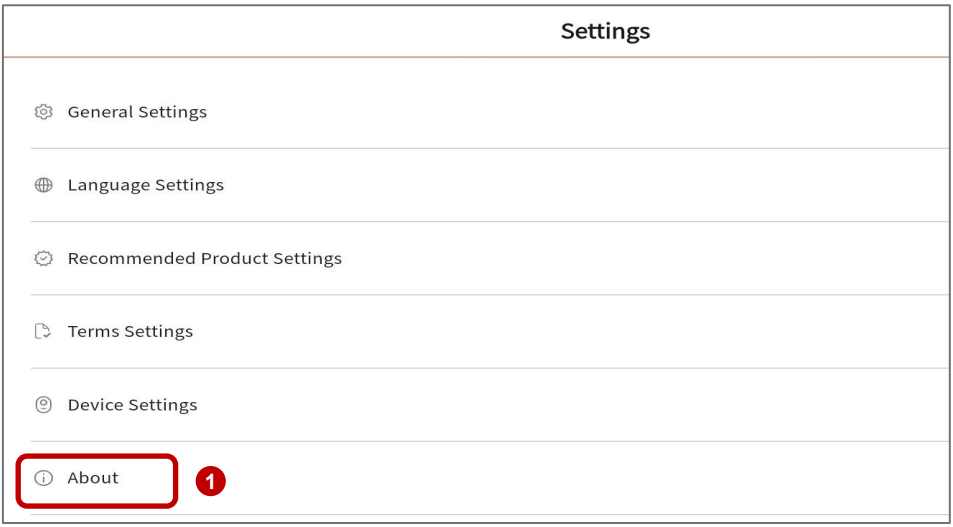


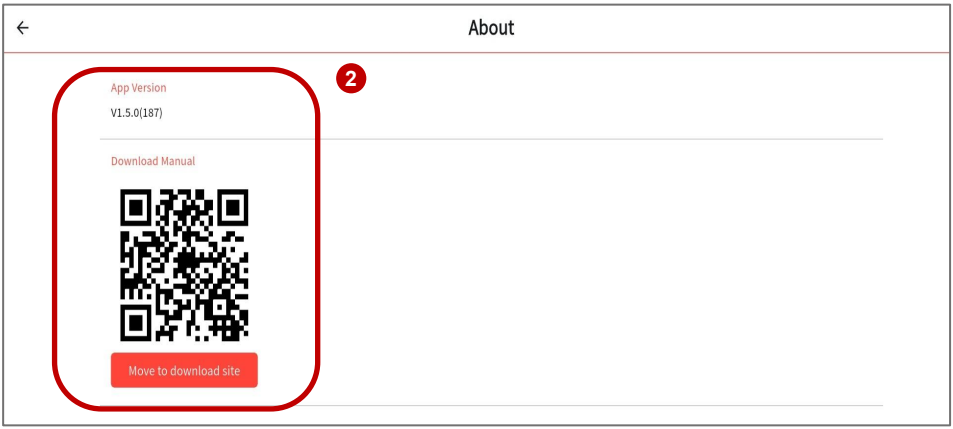
7 Device Settings

- **Devices Connection :** Displays the connected analysis devices.
- **Recent Connection Information :** Shows the model information, serial number, and last connection details of the most recently connected device.

About

Settings





1 About Page (New)

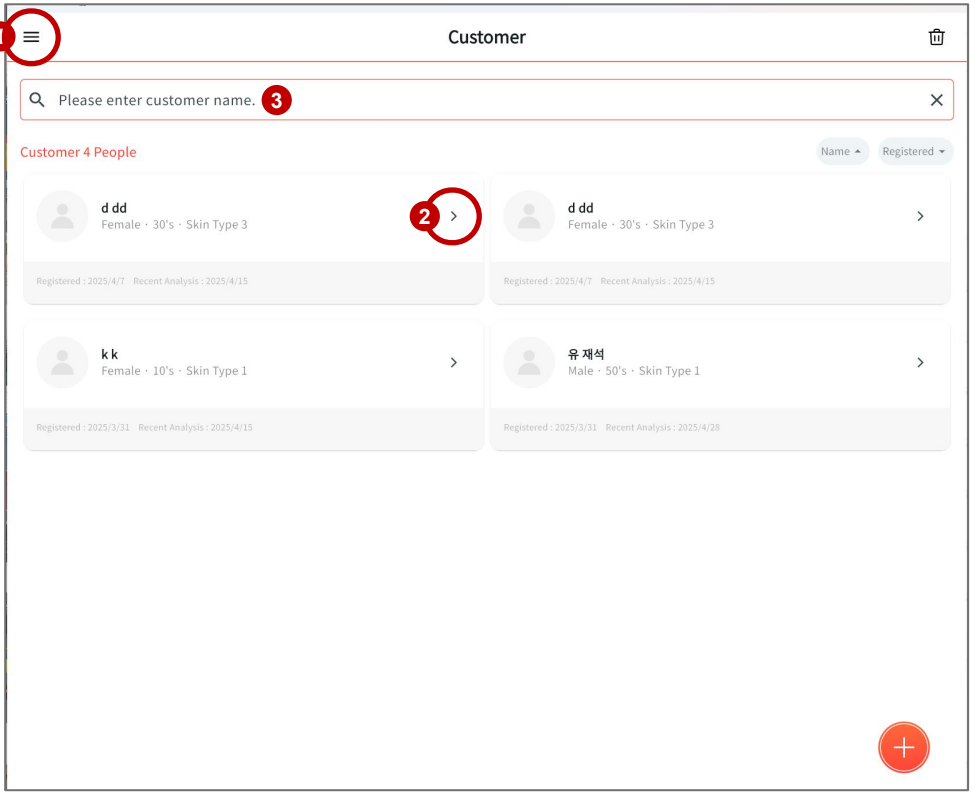
Tap Settings > About to access the About Page.

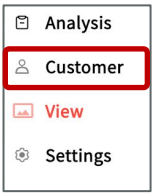
2 Version Info & User Manual

The app version is displayed.

Scan the QR code or tap the Download button to access the user manual.

Customer Lists





1 Customer Lists

Connect company name, existence information, etc.
to DB information and check customer information and symptom result list.

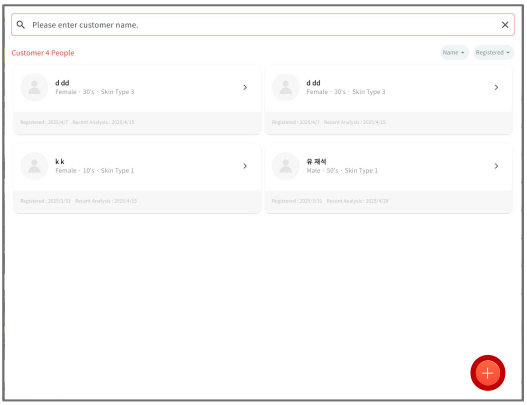
2 Customer details

Select a customer and check their details.

3 Customer search

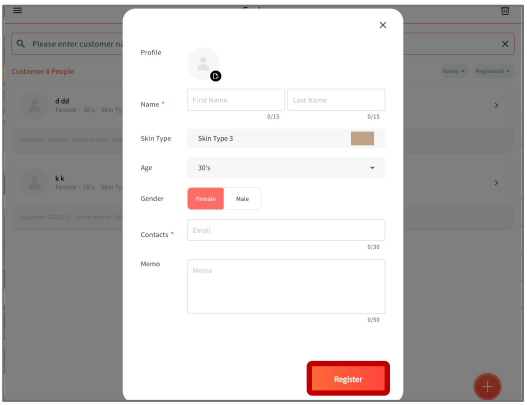
Enter the customer name and select **[Search]** to display the search results.

Customer registration



1 Customer registration

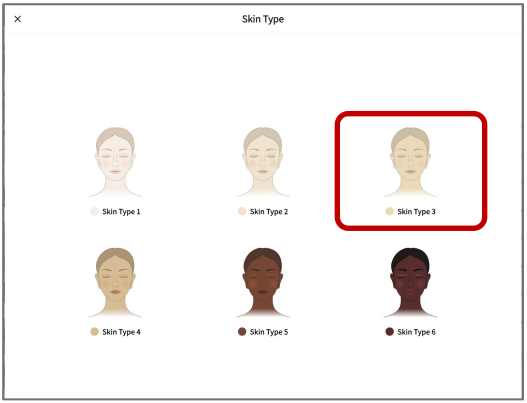
1. Select + to register a new customer.
2. Once the customer registration is complete, select the customer you want to start the analysis from the customer list.



2 Input the information.

Select ✎ to register a photo.

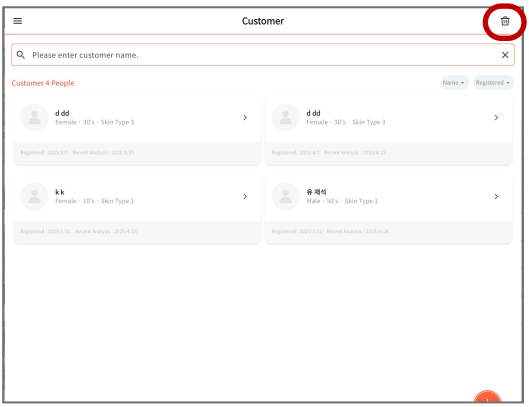
1. Take a photo of your customer's face with your camera or use an existing photo stored on your device.
2. Enter information such as name, skin type, age group, gender, password, and email address,
3. Tap/Click the **[Register]** to register your customer list.



3 Skin type

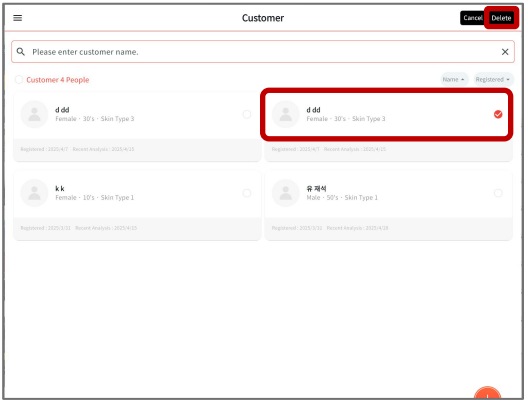
Tap/Click customer's skin type and move to the information entry screen.

Delete customer



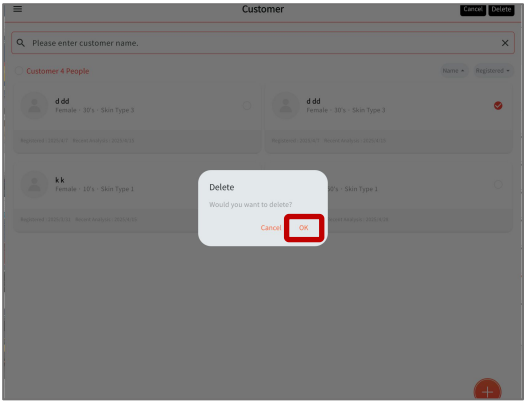
1 Delete customer

Tap/click the **[Trash Can]** icon to change the customer list to edit mode.



2 Customer details

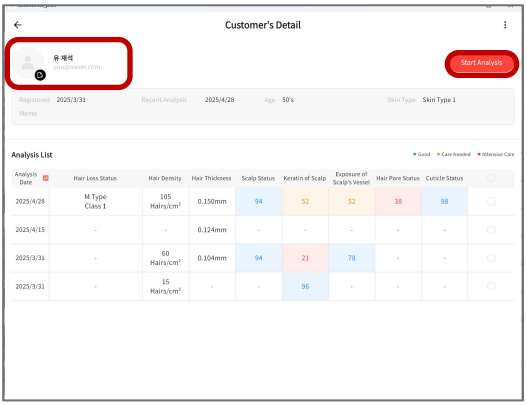
Check the customers you wish to delete. Tap/click the **[Delete]** to remove them from the customer list.



3 Delete Confirmation Window

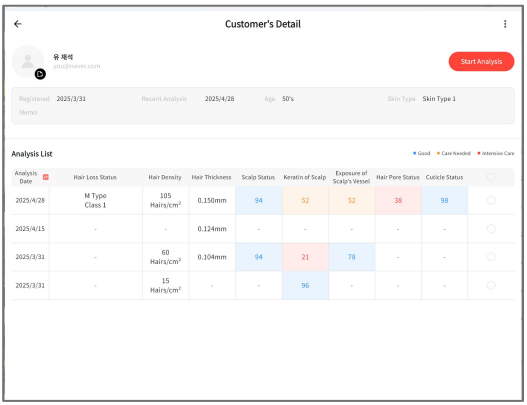
Select **[OK]** to delete from the DB.

Customer details



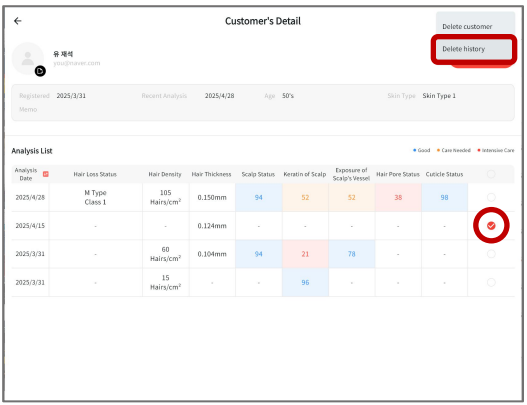
1 Customer details

- **Customer Image :** You can register and edit your customer image.
- **Customer Information :** You can search and edit customer name, registration date, most recent analysis date, age group, skin type, and customer personal information.



2 Analysis List

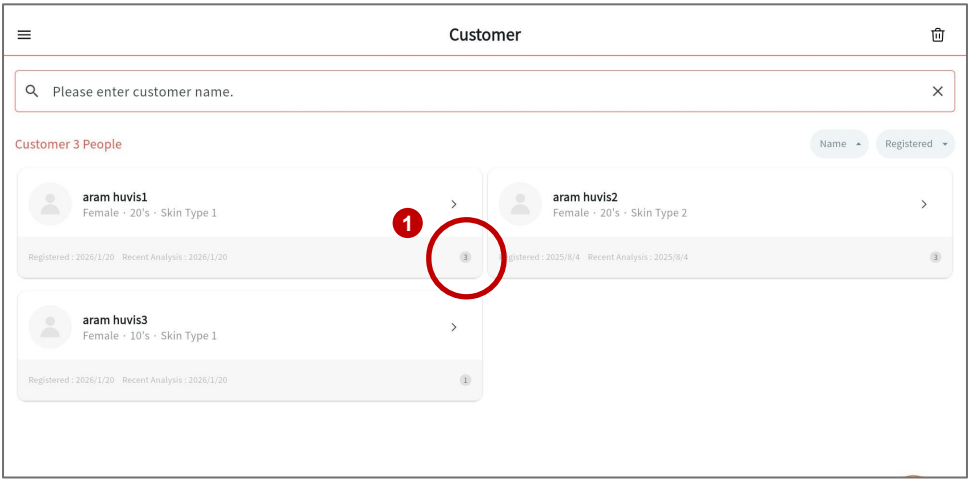
- **Recent Diagnosis Results :** Provides information such as hair density and thickness analyzed recently.

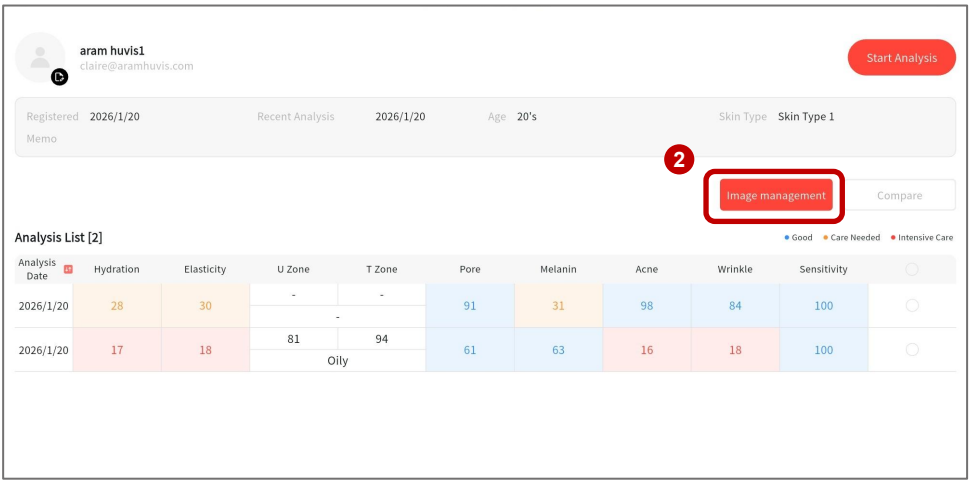


3 Delete Analysis history

Select the checkbox and click **[Delete history]** to delete the history.

Customer List





1 Analysis Count

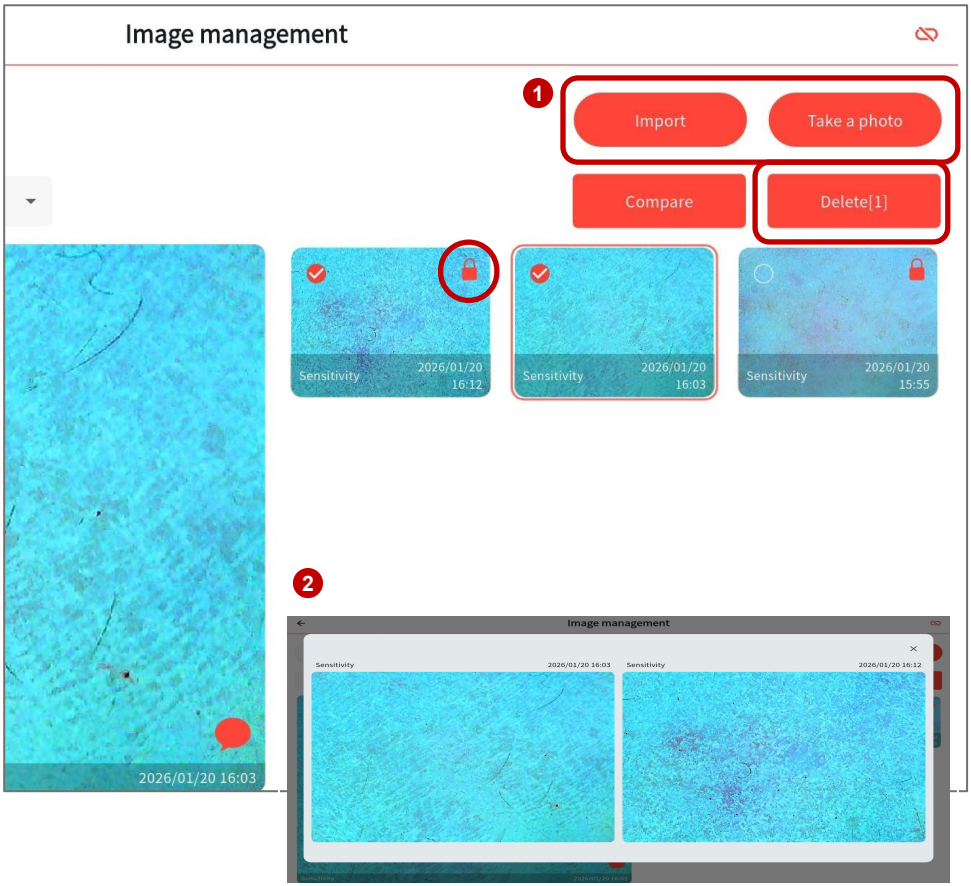
The total number of analyses is shown at the bottom-right of each customer card.

2 Access Image Management

Tap Image Management to manage images related to the customer's analysis results.

Image Management

Customer Management



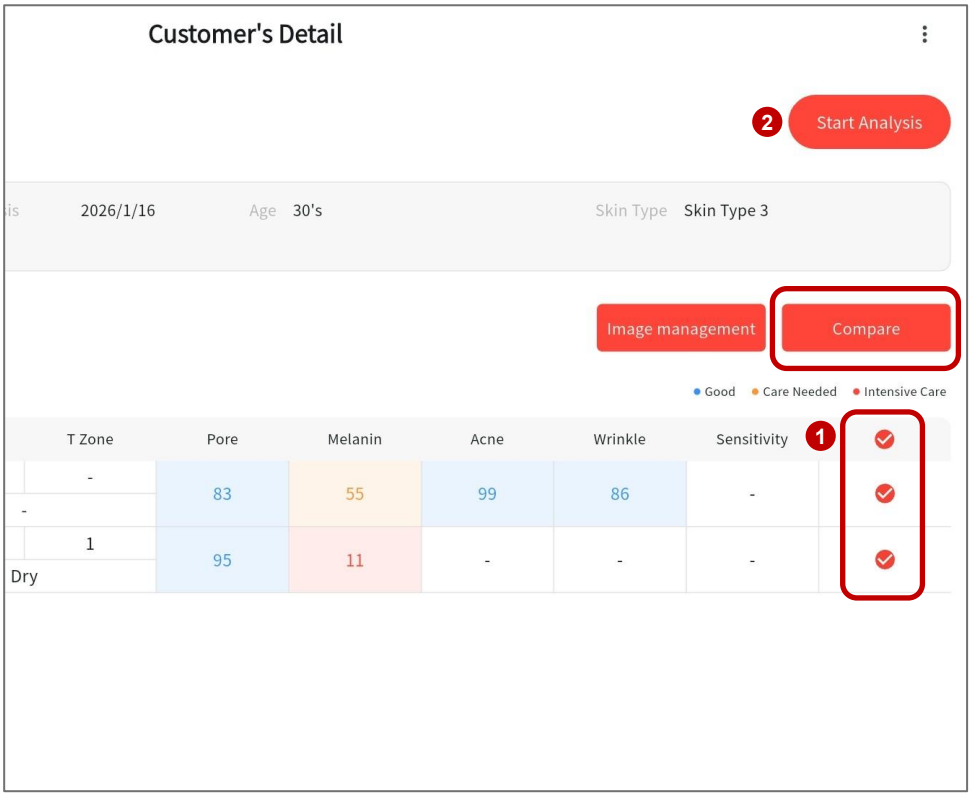
1 Add / Manage Images

- Users can add images by importing or taking new photos within Image Management.
- Only images added through Image Management can be deleted.
- Images captured during analysis are protected. (lock icon displayed)

2 Compare Images

Users can select images and tap Compare to view them side by side for comparison.

Comparison



1 Select Analysis Results

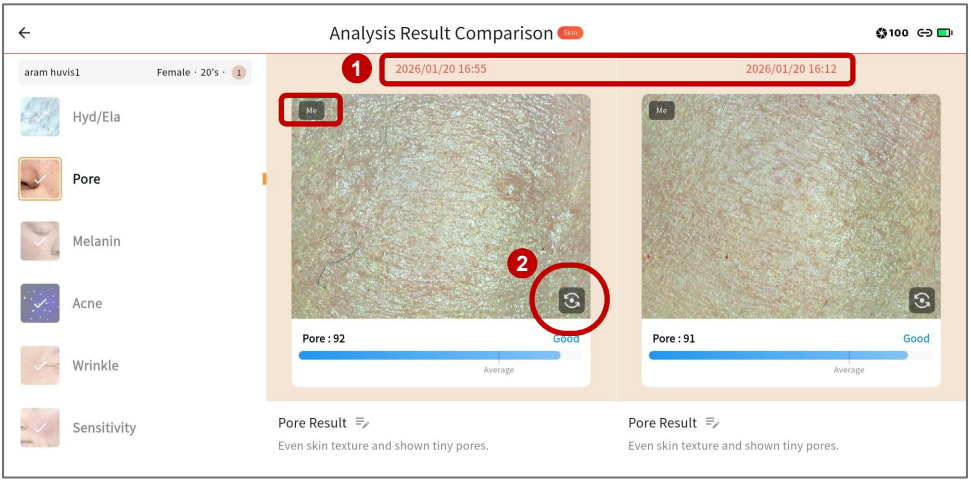
Select 2 analysis results from the list.

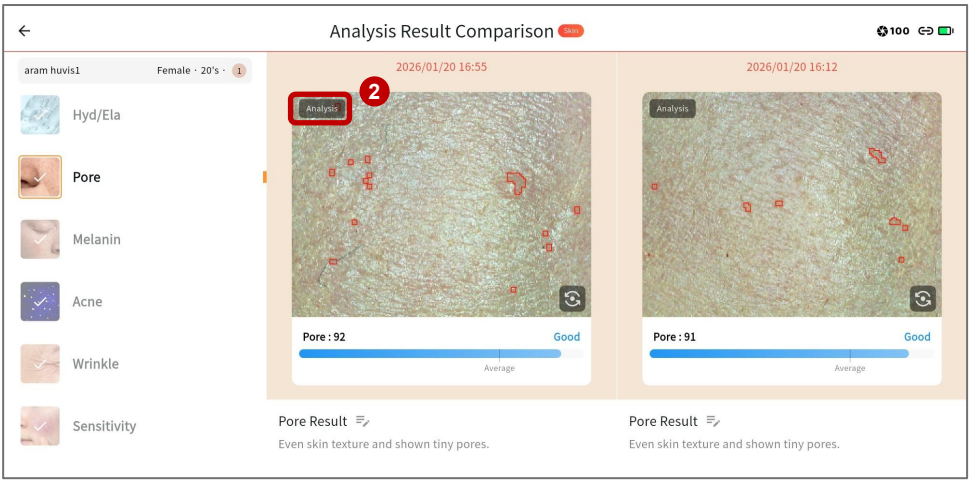
2 Compare Button Activation

Once 2 analysis results are selected, the Compare button is automatically activated.

Tap Compare to view the comparison screen.

Comparison





1 Analysis Result Comparison (Left / Right)

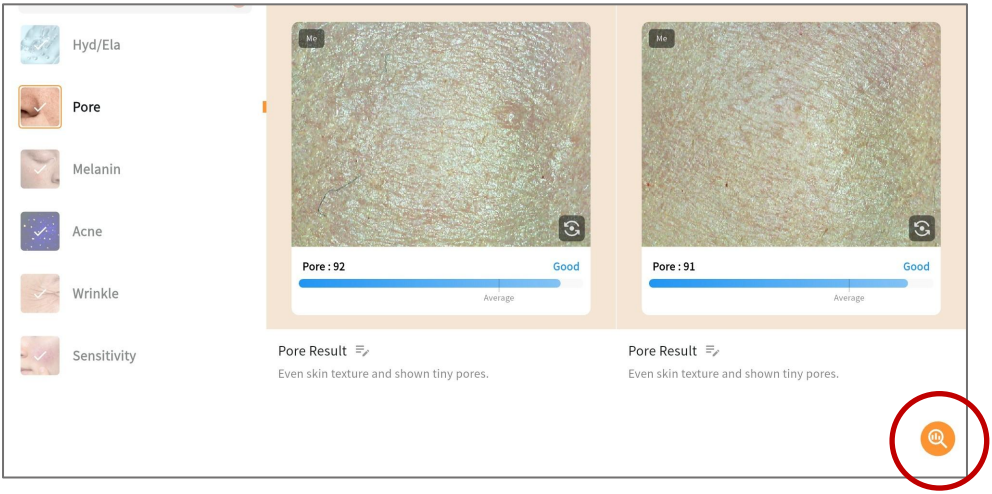
2 analysis results and their dates are displayed side by side for easy comparison.

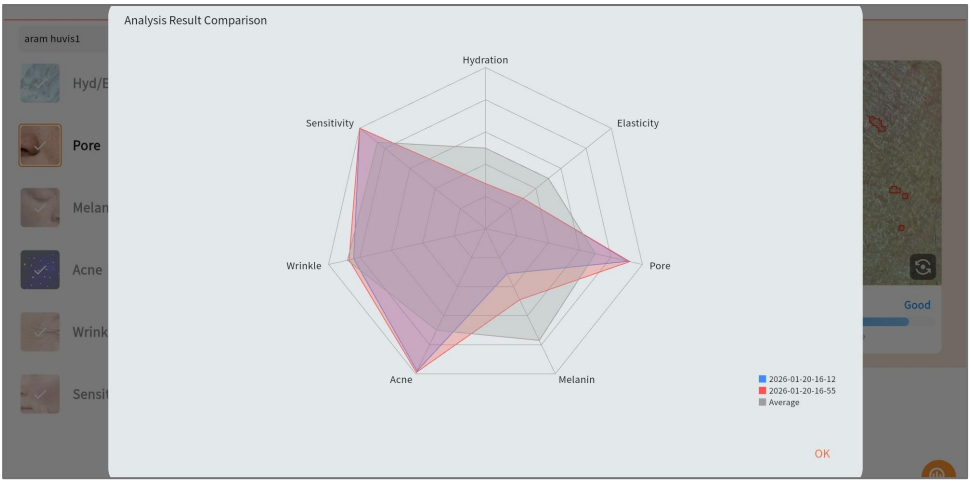
2 Image View Switch (Me ↔ Analysis)

Tap the switch icon to switch between the captured image (Me) and the analysis image (Analysis).

* Not available for Hair Loss and Hydration / Elasticity analyses.

Comparison



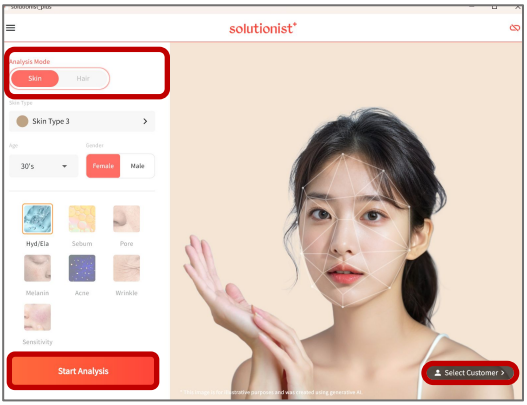


1 Open Comparison Graph

Tap the button at the bottom-right of the comparison screen to open the comparison graph.

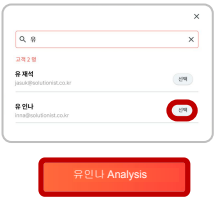
* The graph is displayed only when 3 or more analysis items are available, excluding Sebum.

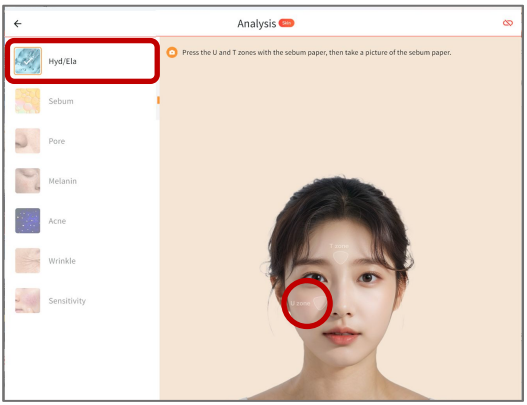
Skin analysis



1 Select analysis mode

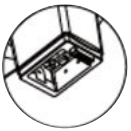
1. Select [Skin] as the analysis mode and click **[Start Analysis]** to start the analysis.
2. If you select **[Select Custom er],** a search box will appear and you can analyze after **[Select]** the customer.

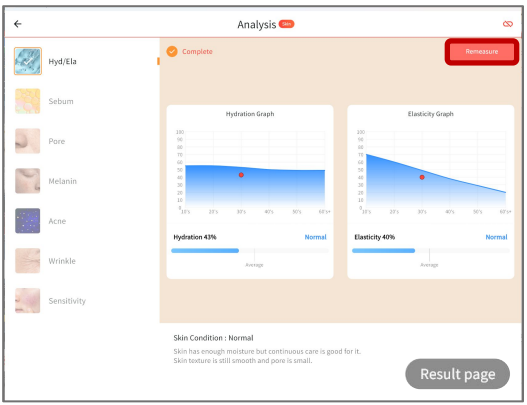




2 Hydration/Elasticity

1. Use the device to capture an image of your cheek.
2. After pressing the device's capture button, when you hear a **"beep"** sound, press the sensor firmly against your skin. Wait until you hear another **"beep"** sound.

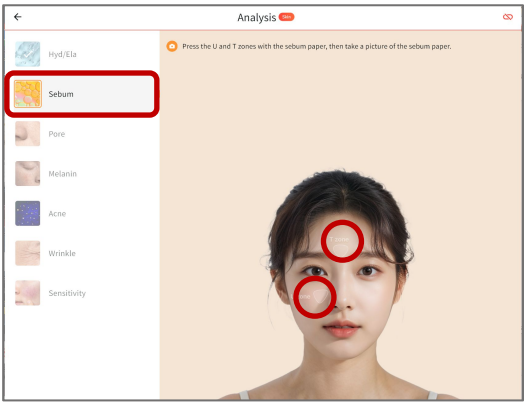




3 Measurement Complete

1. Once the capture is complete, the system will automatically analyze and display the analysis results.
2. Click the **[Remeasure]** button to measure again if it is necessary.

Skin analysis



4 Sebum

1. Place an oil blotting sheet on the **U-zone** of your cheek for 2–3 seconds. Then, press the camera firmly against the pink area to capture an image.

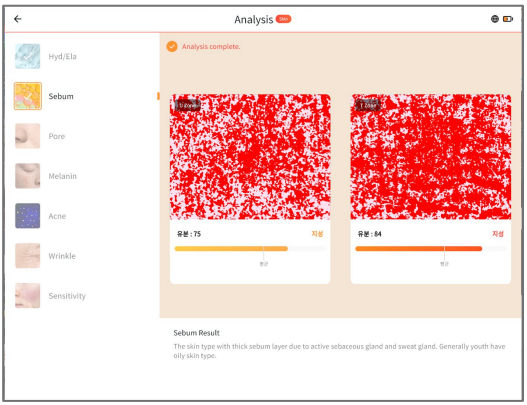

U-zone


Sebum paper

2. Using the same method, capture an image of the **T-zone.**

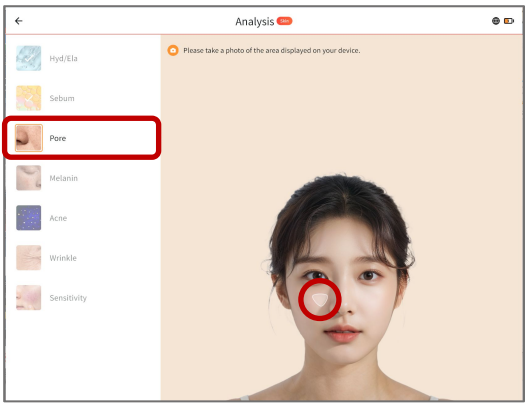

T-zone


Sebum paper



5 Analysis Complete

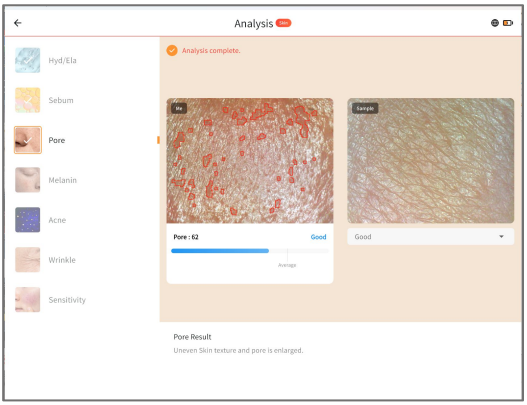
Once the capture is complete, the system will automatically analyze and display the analysis results.



6 Pore

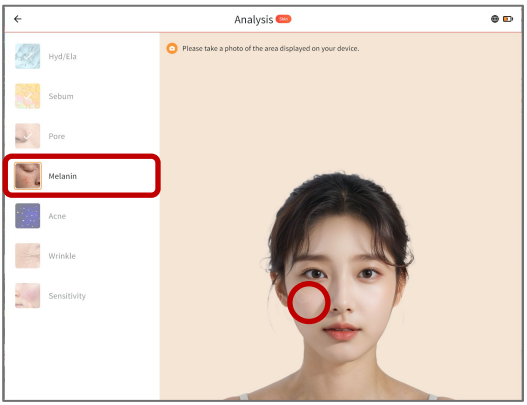
Use the device to capture an image of **inner cheek area**.

Skin analysis



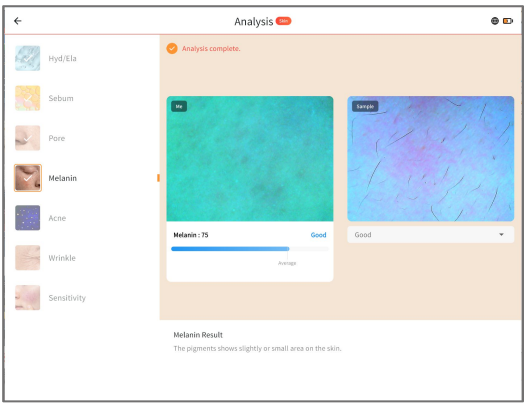
7 Analysis Complete

Once the capture is complete, the system will automatically analyze and display the analysis results.



8 Melanin

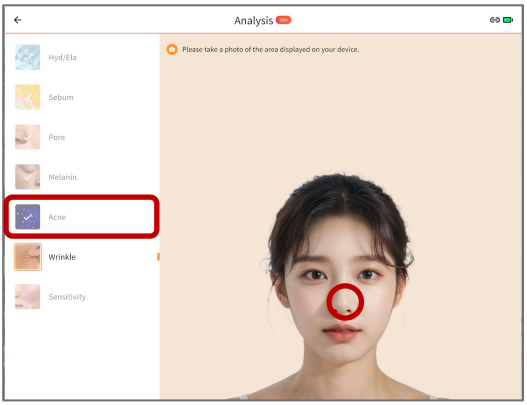
Use the device to capture an image of **the area below the eyes and above the cheekbones**.



9 Analysis Complete

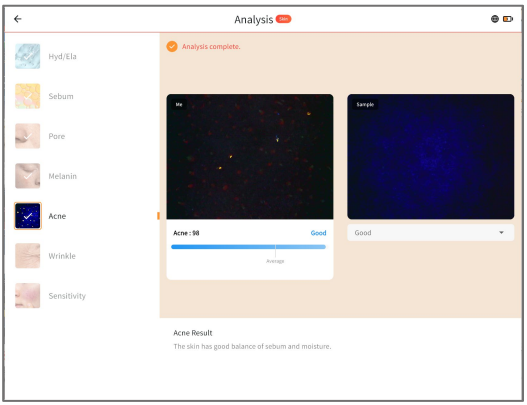
Once the capture is complete, the system will automatically analyze and display the analysis results.

Skin analysis



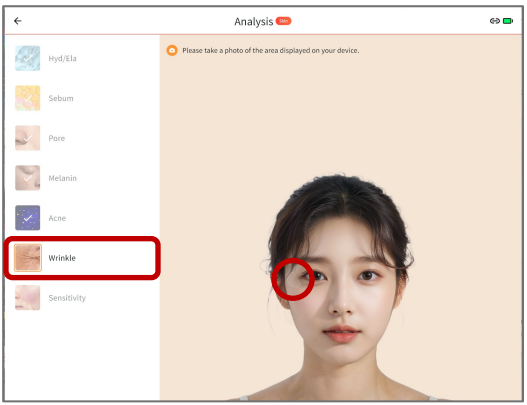
10 Acne

Use the device to capture an image of **the bridge of the nose and the nostrils**.



11 Analysis Complete

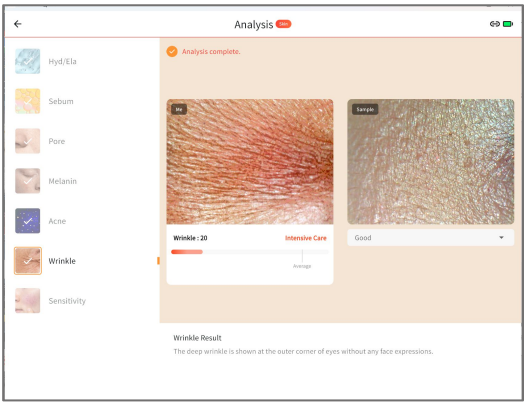
Once the capture is complete, the system will automatically analyze and display the analysis results.



12 Wrinkles

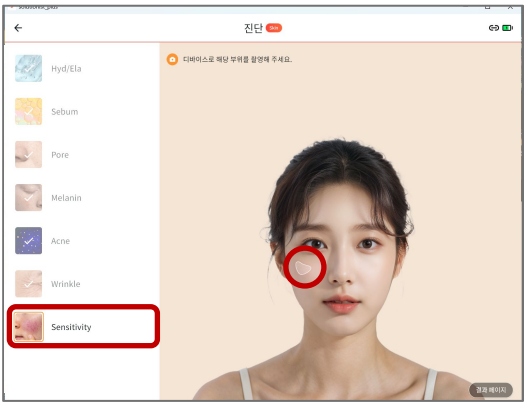
Use the device to capture an image of **the eye area**.

Skin analysis



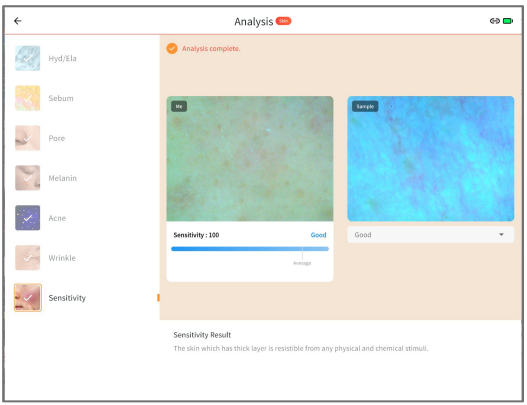
13 Analysis Complete

Once the capture is complete, the system will automatically analyze and display the analysis results.



14 Sensitivity

Use the device to capture an image of **the area below the eyes**.

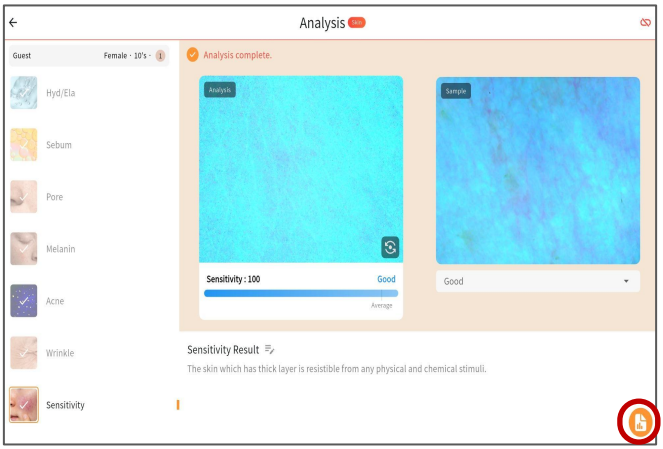


15 Analysis Complete

Once the capture is complete, the system will automatically analyze and display the analysis results.

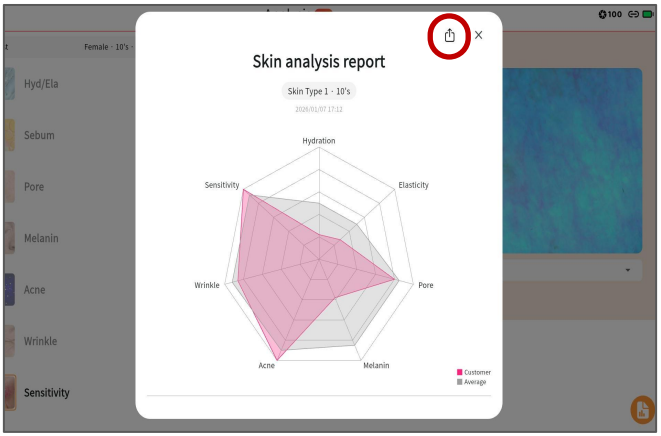
Skin analysis Summary

Analysis



1 Skin Analysis Report

Click the report icon at the bottom right to view the skin analysis report.



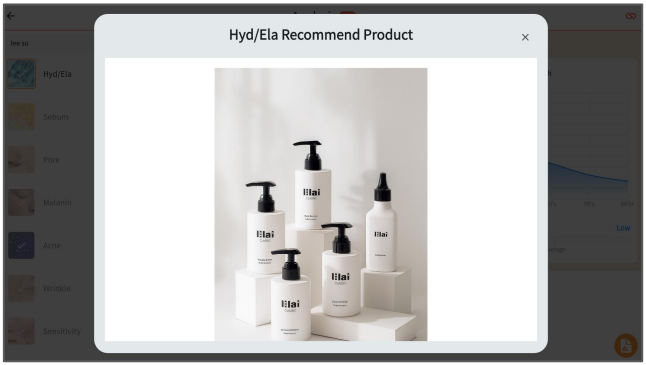
2 Sharing Analysis Results (PDF)

After the analysis is complete, tap the share icon at the top right.
The analysis results can be converted into a PDF and shared via email.

Skin analysis Summary

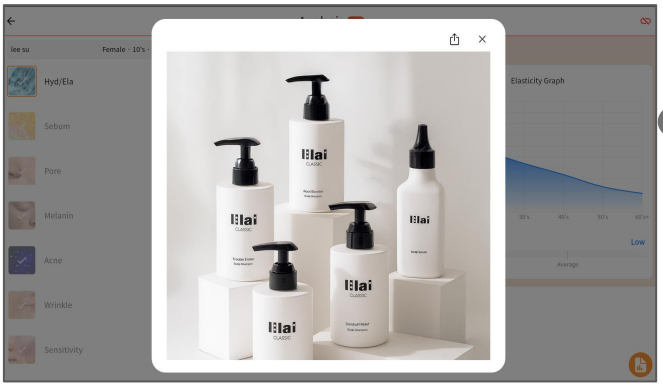
*** Recommended Products**

Recommended products can be assigned for each diagnostic item in Settings > Recommended Product Settings.



1 Recommended Products Overview

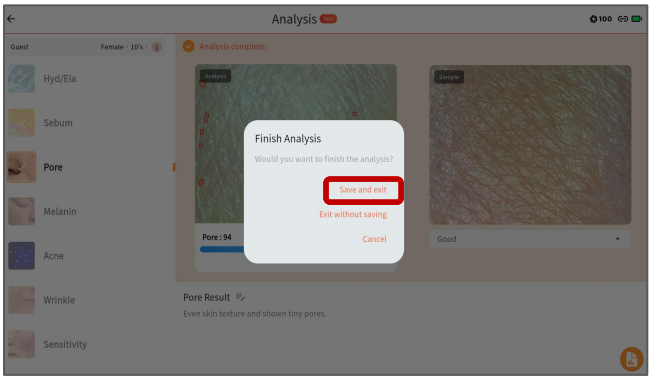
Recommended product images are displayed immediately on the analysis result screen.



2 Recommended Product Details

Clicking an image opens a popup with detailed product information.

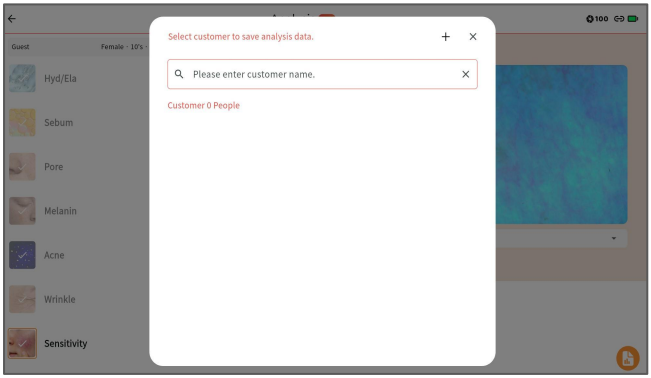
Skin analysis Summary



Finish Analysis

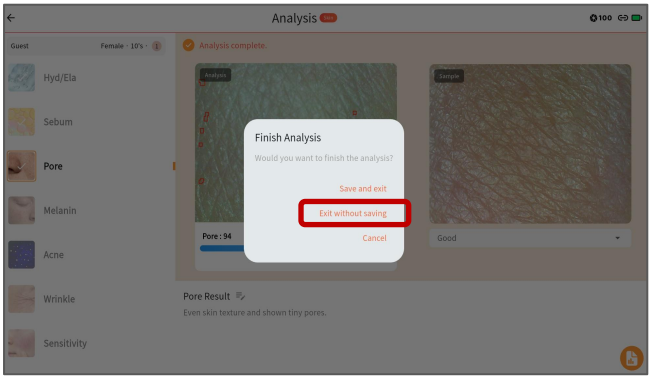
This popup appears when exiting the analysis screen and allows the user to choose whether to save the analysis results.

1 **- Save and exit**
Saves the current analysis results and exits the analysis screen.
If the user is in Guest mode, a customer selection screen appears before saving. Only customers with the same skin type, age, and gender as the current analysis can be selected, or a new customer can be added.



2 *** Customer Selection (Guest Mode)**
This screen appears after tapping Save and exit when the user is in Guest mode.

1. Select an existing customer from the list to save the analysis results.
2. Use the search field to find a customer by name.
   Tap the “+” icon at the top right to register a new customer.
3. After completing customer registration, the analysis results are automatically saved to the selected or newly registered customer.



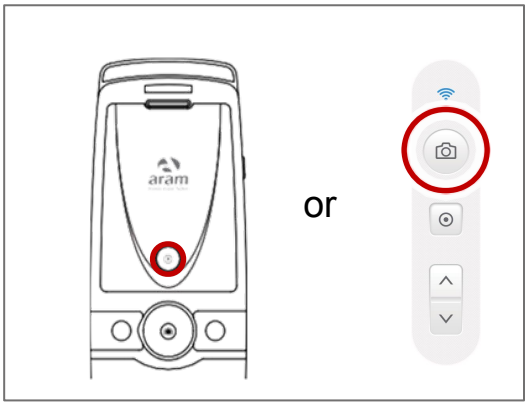
- Exit without saving

3 Exits the analysis screen without saving the analysis results.

- Cancel

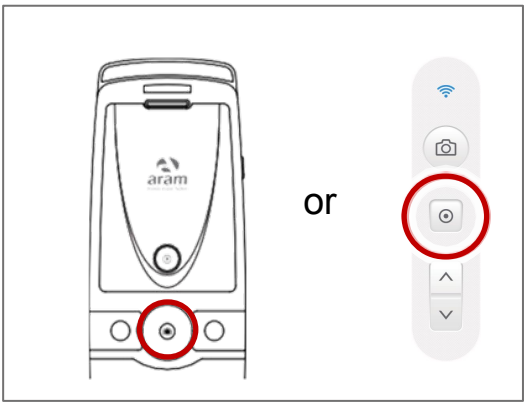
Closes the popup and returns to the analysis screen.

Hair analysis



1 Camera Operation Instructions

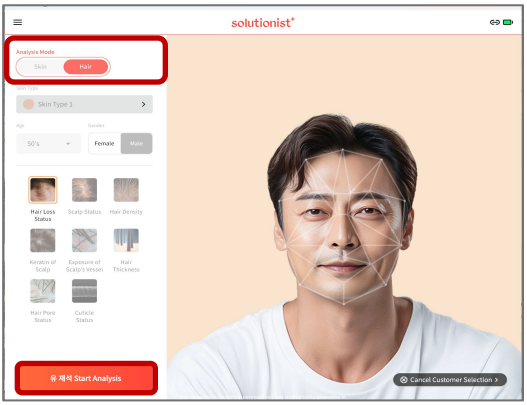
Press the device's capture button to activate the camera.



2 Camera Shooting

Press the capture button to take photos of the customer's scalp (top and side views), then press the **analysis button** on the device to proceed with the analysis.

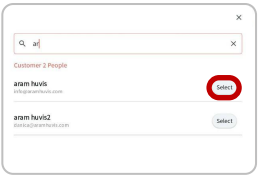
Hair analysis

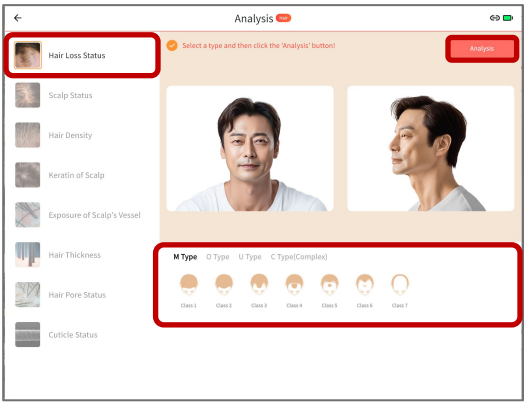


1 Analysis Mode Selection

1. Select Hair as the analysis mode. Choose **[Analysis]** to start the analysis.

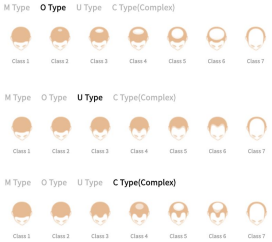
2. Selecting **[Customer Selection]** will display a search box where you can select a customer to proceed with the analysis.

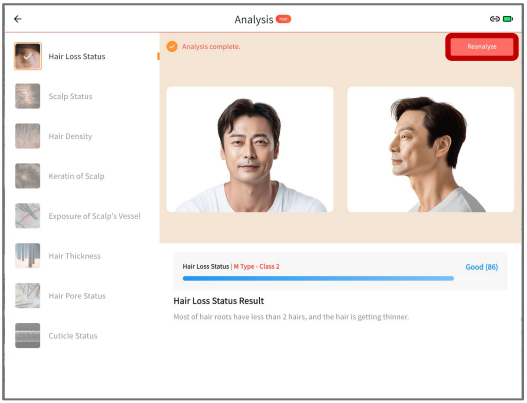




2 Hair Loss Status

Select the hair loss status among samples, and Tap/Click the **[Analysis].**



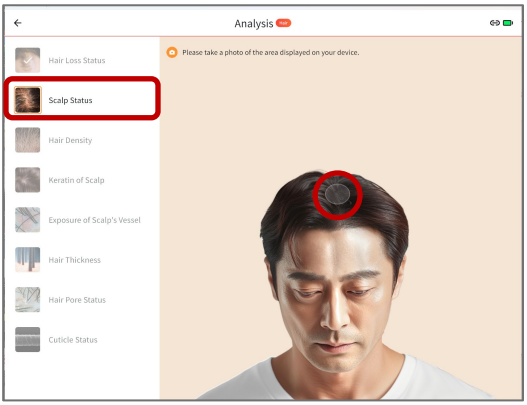


3 Analysis Complete

Review the analyzed results.

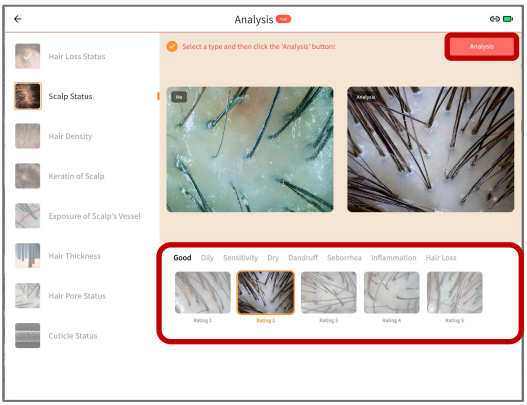
Select **[Reanalyze]** to measure again if it is necessary.

Hair analysis



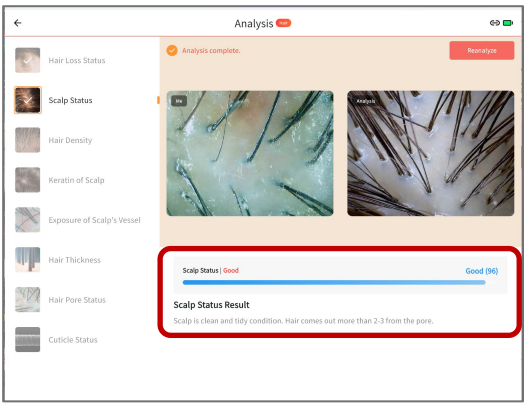
4 Scalp Status

Take a photo of upper scalp area.



5 Analysis

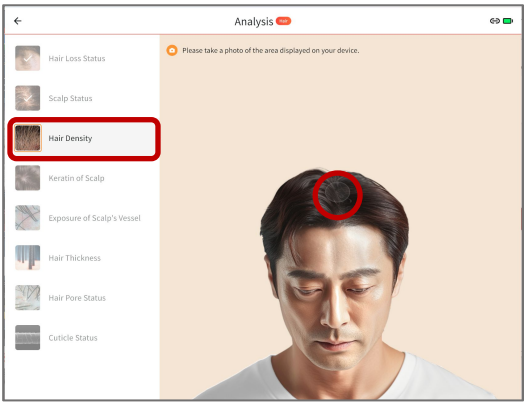
From the samples provided, select the one that most closely matches your captured image and Tap/Click **[Analysis]**.



6 Analysis result

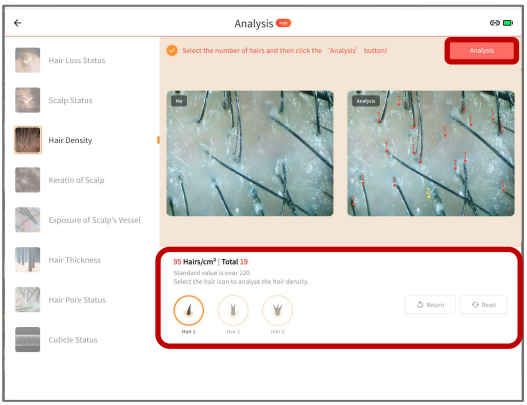
Review the analysis result.

Hair analysis



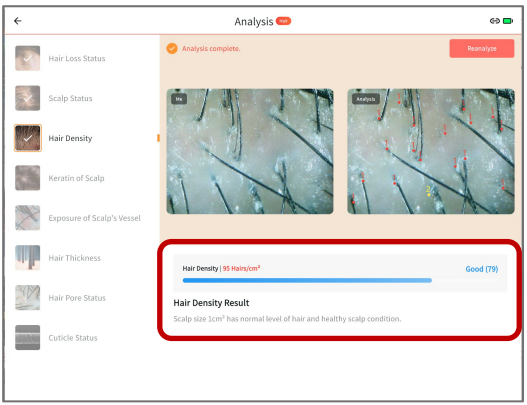
7 Hair Density

Shoot the scalp's upper area.



8 Analysis

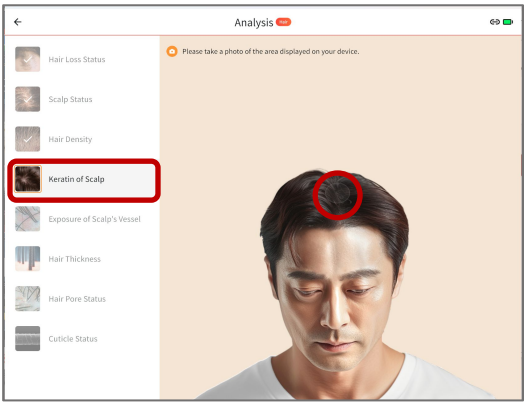
Select among the hair icon to count the number of hairs in each pore, then Tap/Click the **[Analysis]** button.



9 Analysis result

Review the analysis result.

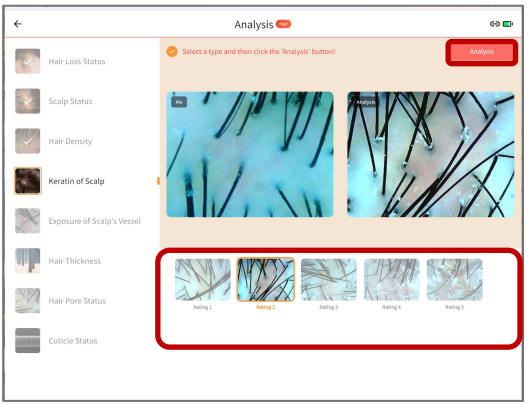
Hair analysis



10 Keratin of Scarp

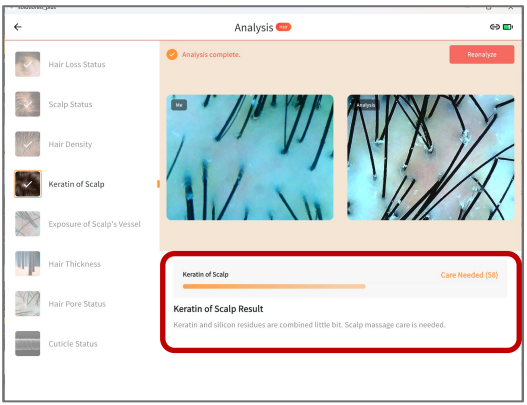
Take a photo of upper scalp area.

If an **algorithm** is selected in general settings, the system will automatically analyze and display the results.



11 Analysis

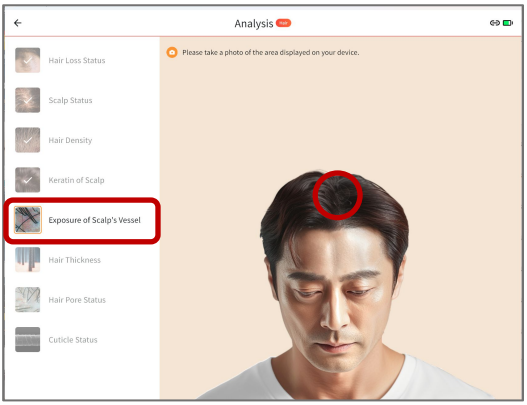
Select a scalp condition similar to the guide and click **[Analysis]**.



12 Analysis result

Review the analysis result

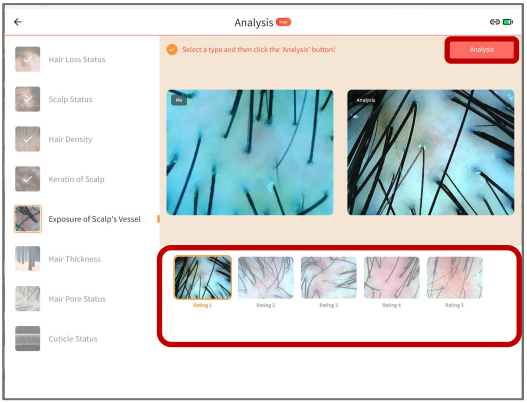
Hair analysis



13 Exposure of Scalp's Vessel

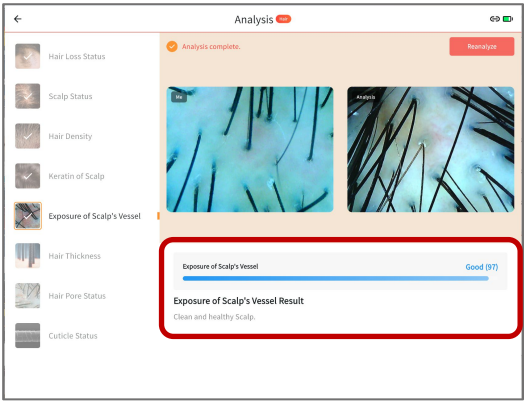
Take a photo of upper scalp area.

If an **algorithm** is selected in general settings, the system will automatically analyze and display the results.



14 Analysis

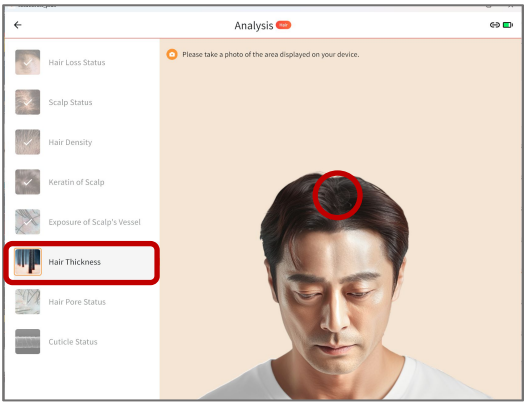
Select a similar scalp condition among samples and Tap/Click **[Analysis]** button.



15 Analysis result

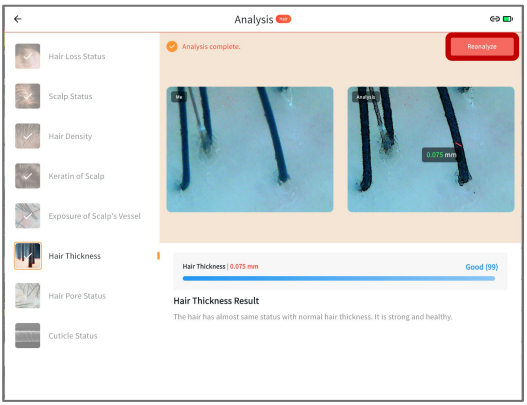
Review the analysis result.

Hair analysis



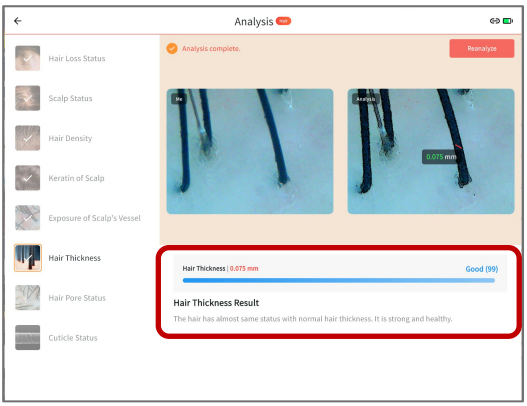
16 Hair Thickness

Take a photo of Hair to be measured.



17 Analysis

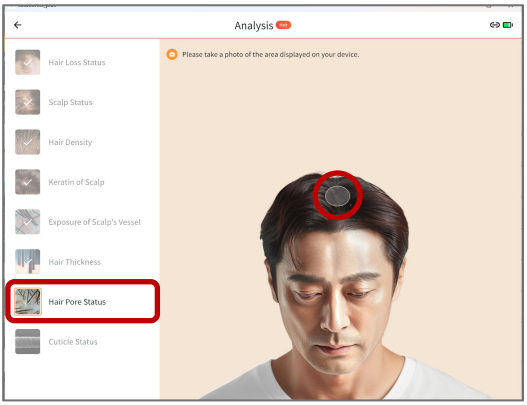
Drag the hair in the captured photo to measure its thickness, then click tap/click **[Analysis]**.



18 Analysis result

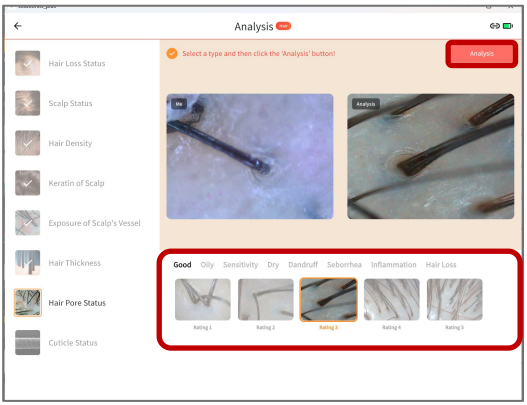
Review the analysis result

Hair analysis



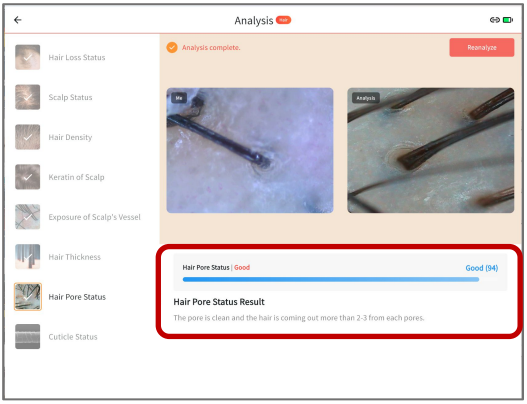
19 Hair Pore Status

Take the photo of scalp, ensuring pores in the upper area are clearly visible.



20 Analysis

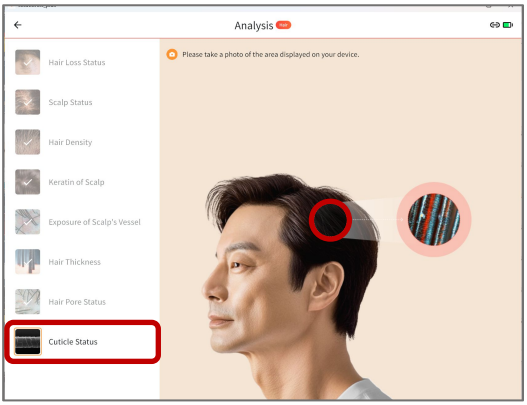
Select similar pore condition among samples and Tap/Click **[Analysis]** button.



21 Analysis result

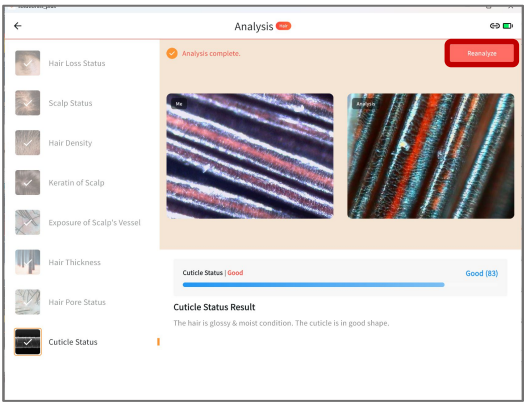
Review the analysis result.

Hair analysis



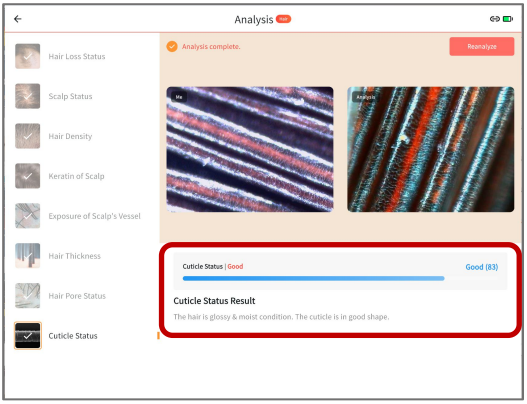
22 Cuticle Status

Take a photo of the Hair Cuticle.



23 Analysis

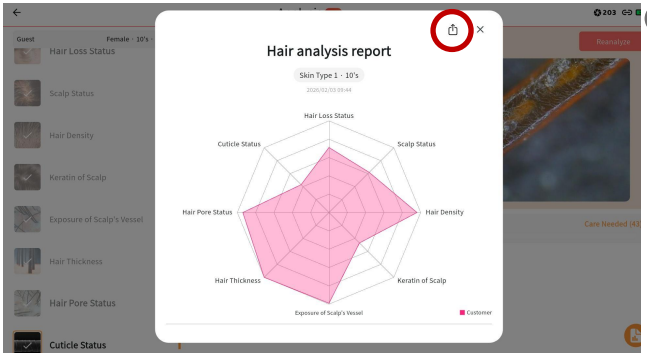
After capturing the cuticle, select the most similar type of image and Tap/click **[Analysis]** button.



24 Analysis result

Review the analysis result.

Hair analysis Summary

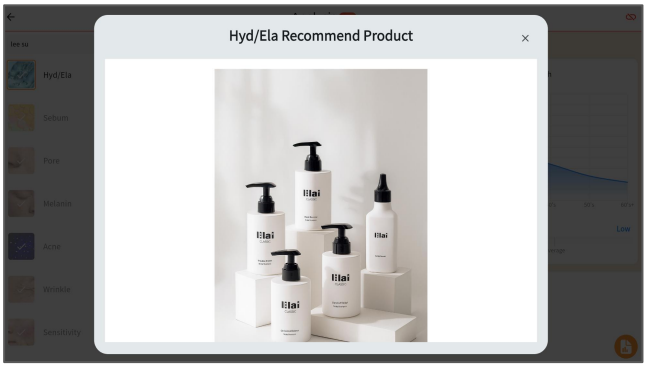


1 Sharing Analysis Results (PDF)

After the analysis is complete, tap the share icon at the top right.
The analysis results can be converted into a PDF and shared via email.

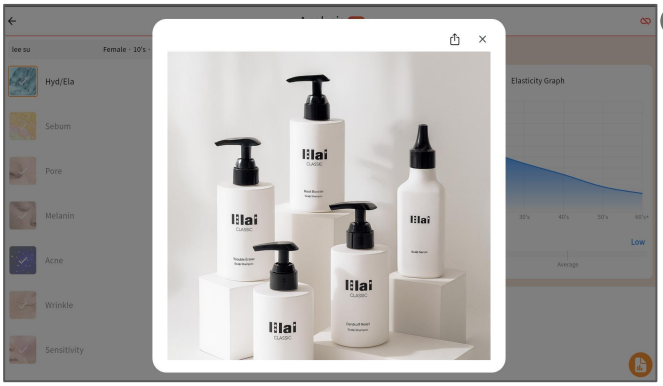
*** Recommended Products**

Recommended products can be assigned for each diagnostic item in Settings > Recommended Product Settings.



2 Recommended Products Overview

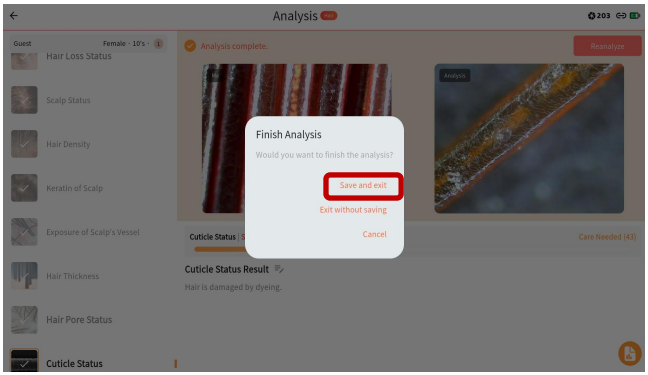
Recommended product images are displayed immediately on the analysis result screen.



3 Recommended Product Details

Clicking an image opens a popup with detailed product information.

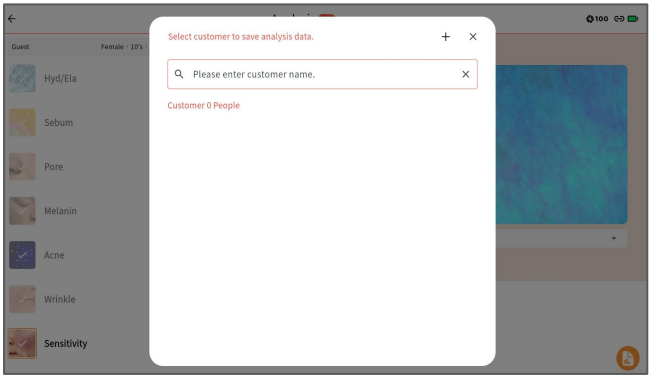
Hair analysis Summary



Finish Analysis

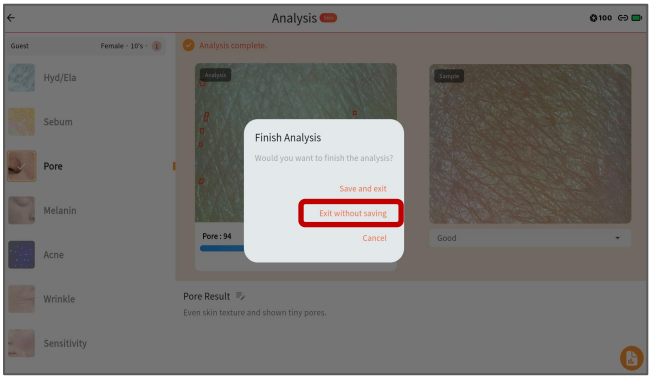
This popup appears when exiting the analysis screen and allows the user to choose whether to save the analysis results.

1 **- Save and exit**
Saves the current analysis results and exits the analysis screen.
If the user is in Guest mode, a customer selection screen appears before saving. Only customers with the same skin type, age, and gender as the current analysis can be selected, or a new customer can be added.



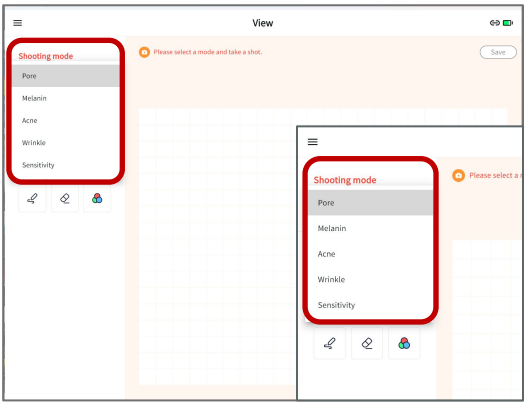
2 *** Customer Selection (Guest Mode)**
This screen appears after tapping Save and exit when the user is in Guest mode.

1. Select an existing customer from the list to save the analysis results.
2. Use the search field to find a customer by name.
   Tap the “+” icon at the top right to register a new customer.
3. After completing customer registration, the analysis results are automatically saved to the selected or newly registered customer.



3 **- Exit without saving**
Exits the analysis screen without saving the analysis results.

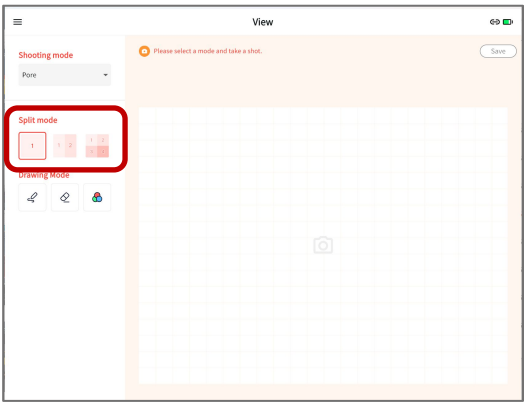
- Cancel
Closes the popup and returns to the analysis screen.



1 Shooting Mode

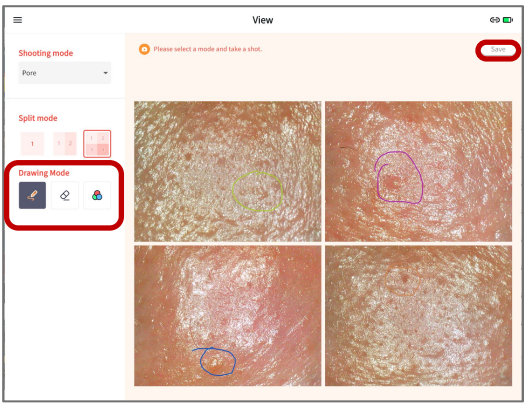
Select the Shooting Mode.

- In **[Skin Mode]**, you can select from the following options : Pore, Pigmentation, Sebum, Wrinkle, and Sensitivity Modes.
- In **[Hair Mode]**, you can select from the following options : Scalp Condition, Hair Density, Keratin Amount, Blood Vessel Exposure, Hair Thickness, Pore Condition, and Hair Damage.



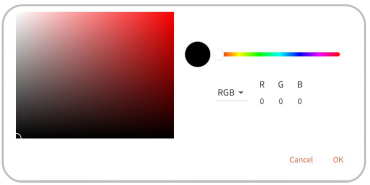
2 Split Mode

You can select split mode to compare using sides 1, 2, or 4.



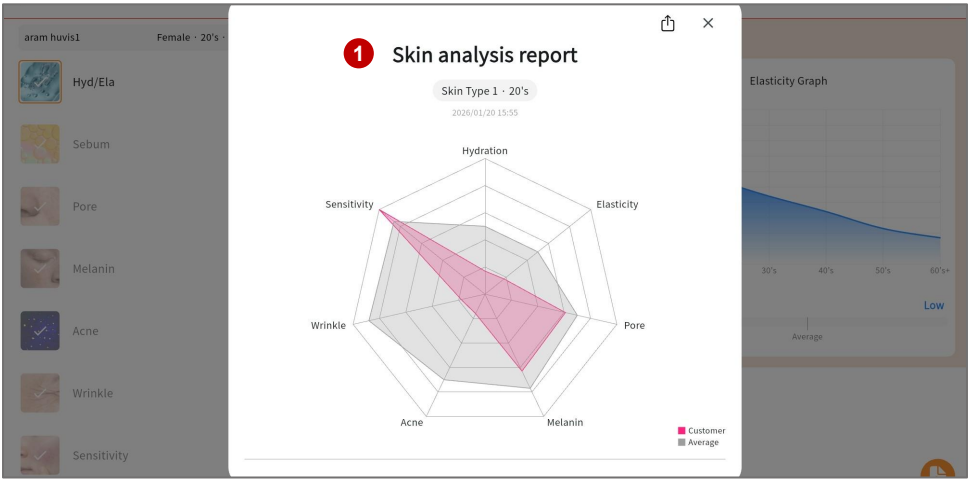
3 Drawing mode

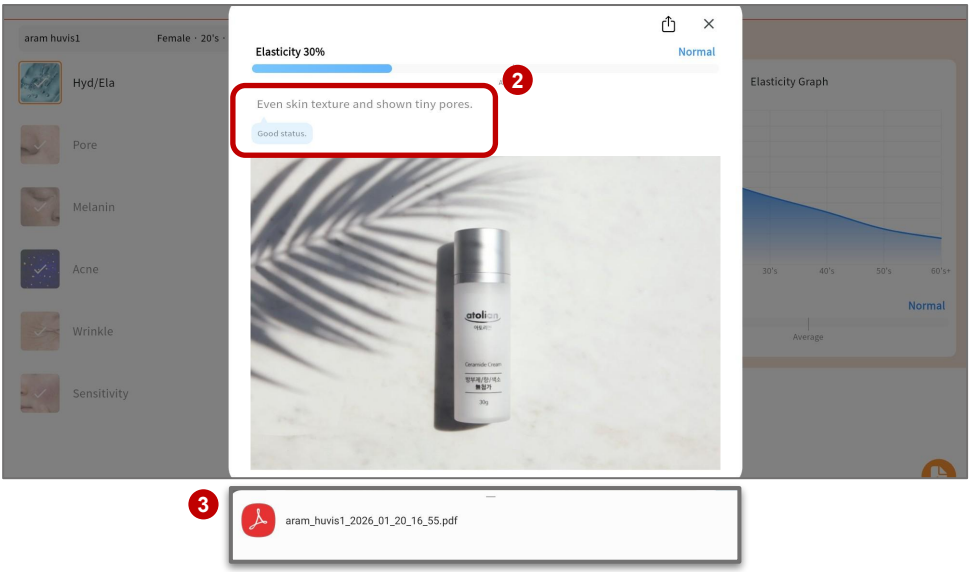
Use the drawing tool to create a sketch or add a memo. Feel free to erase or change colors as needed. Tap/click the **[Save]** to save.



PDF Export

PDF





1 PDF Export Updates

Result graph, recommended products & memo, and analysis date have been added.

solutionist+

User manual

aram HUVIS

HEAD OFFICE

#401 Bundang Seoul National University Hospital Health Care Innovation Park, 172, Dolma-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13605 Rep. Korea

PRODUCTION DIVISION & FACTORY

#801 Byucksan Technopia, 560, Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, 13230 Rep. Korea

Tel: 070-4687-1712 / Fax: 031-732-6330

Email: info@aramhuvis.com http://www.aramhuvis.com