

# T8 AI Intelligent scalp analyzer

L e a d i n g   t e c h n o l o g y   c r e a t e s   b e a u t y

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AND CORE  
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ANALYSIS

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HARDWARE  
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【T8 AI Intelligent scalp analyzer】



T8 AI Intelligent scalp analyzer

01

FUNCTIONS  
COVER



# T8 AI Intelligent scalp analyzer

**T8 AI Intelligent scalp device:** With the aim of solving scalp problems as the research and development orientation, it integrates three spectral imaging technologies, utilizes high-definition lenses and light sources, and combines AI artificial intelligence algorithms and image processing capabilities to transform the microscopic conditions of the scalp into visual images. The collected images are then analyzed. The professional and objective analysis of the scalp's seventeen issues and flexible operation are the original intentions of the research and development. It conducts comprehensive detection of five key areas including the forehead, left and right sides, top of the head, and the back of the head to comprehensively assess the health of hair follicles, sebum secretion, inflammatory conditions, scalp barrier function, and potential hair loss risks, thereby fully grasping the true state of the scalp.

## Applicable scenarios



Beauty salon



Hair salon



Hair transplant  
clinic

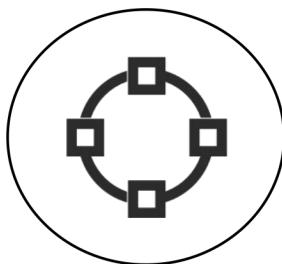


For household  
use

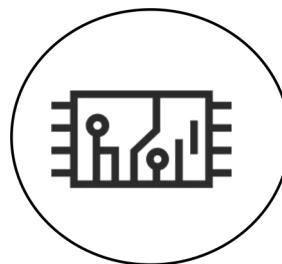
## Technical advantages



Product  
recommendation



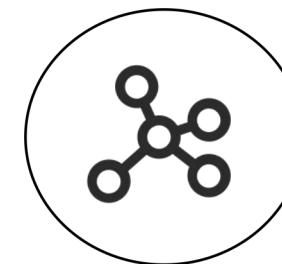
Three-spectrum  
detection



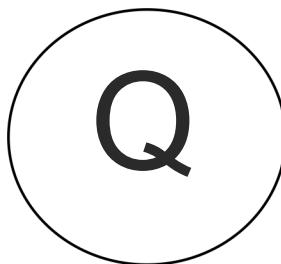
AI  
algorithm



Hair follicle  
detection



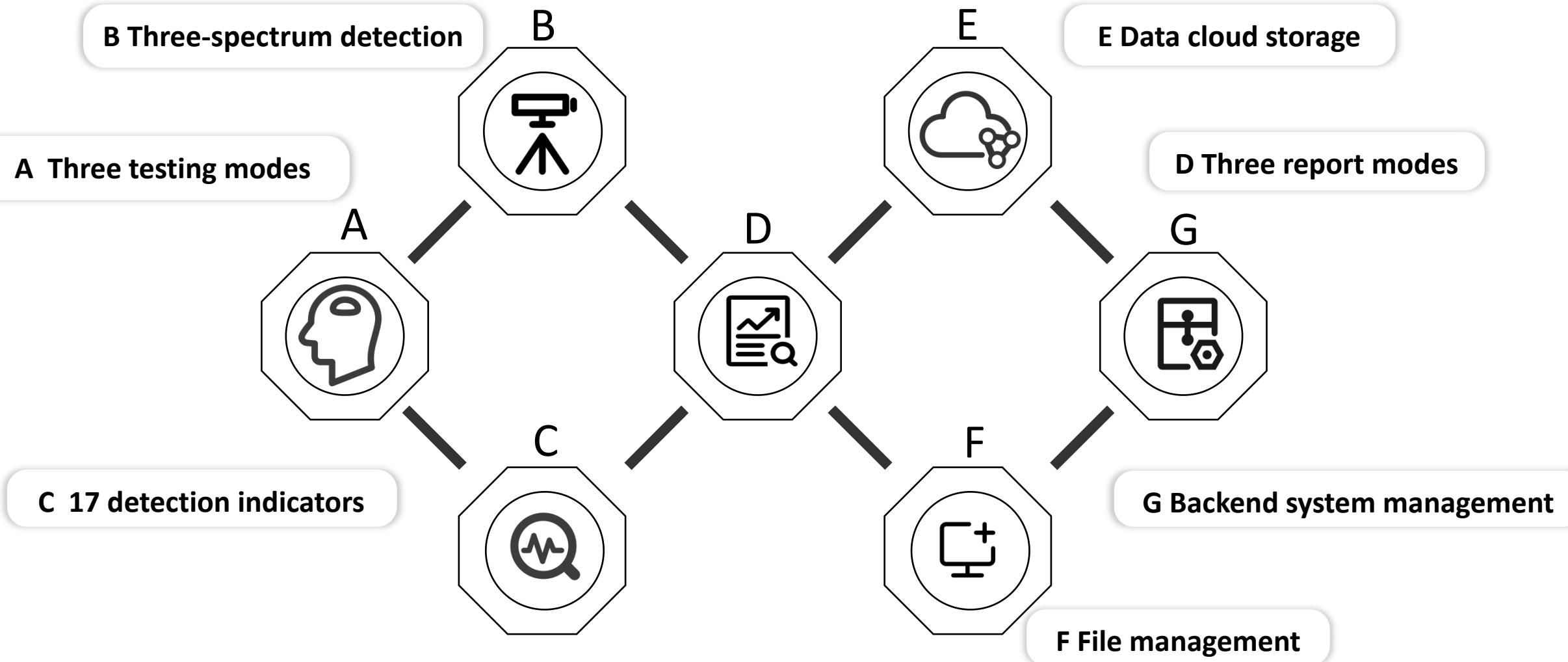
Seventeen dimensional  
indicators



200x/50x  
magnification

# Functional coverage

【T8 AI Intelligent scalp analyzer】





T8 AI Intelligent scalp analyzer

02

## IMAGE ANALYSIS AND CORE INDICATORS

## Three-spectrum detection



White light



Negative  
polarization light



UV light

## Three-spectrum detection



White light

### Theory:

Under uniform natural light illumination, stray light is filtered out to clearly present visible scalp problems in the epidermis to the naked eye. Under white light, the distribution characteristics of scalp texture, skin grooves, and skin ridges can be observed. It can be used to observe issues such as scalp color, hair density, hair thickness, and scalp sensitivity.

## Three-spectrum detection



Positive polarization light

### Theory:

A special cross-polarizer lens group is adopted, which can effectively reduce direct reflected light. The cross-polarization mode captures images formed by light reflected from the basal layer and dermis of the scalp skin entering the lens. Since the basal layer and dermis are rich in melanin and hemoglobin, the cross-polarization mode is used to observe the deep conditions of the scalp skin (basal layer and dermis), displaying the status of capillaries and pigmentation. It aids in the auxiliary diagnosis and efficacy observation of symptoms such as white hair, hair thickness, hair follicle health, dandruff, red blood streaks, sensitive inflammation, as well as pigmentation-abnormal scalp problems.。

## Three-spectrum detection



UV light

### Theory:

With a wavelength of 365nm, the cells and tissues of the scalp skin have a natural function of converting invisible light into visible fluorescence, thereby effectively making the scalp skin a light emitter. UV light penetrates from the surface layer of the scalp skin to various layers, exciting different fluorescences. These fluorescences enter the lens to form images showing scalp symptoms, which can be used to detect problems such as blockage of scalp hair follicle openings, dandruff, and fluorescent agents.

# Seventeen test indicators

Moisture



Scalp sebum



Blocked hair follicles



Dandruff



Sensitivity



Red area map



Heat map of sensitivity



Empty hair follicle



New hair growth



T8 AI INTELLIGENT IMAGER



Gray hair



Heat map of pigment



Hair density



Hair thickness



Hair follicle health



Scalp condition



Scalp pigmentation



Deep collagen



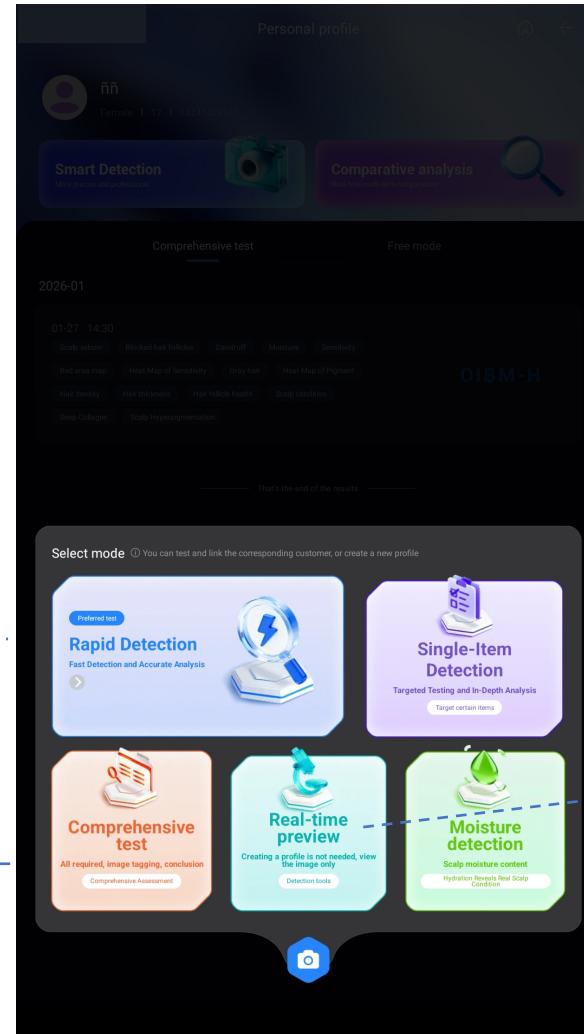
T8 AI Intelligent scalp analyzer

03

DETECTION  
MODE AND  
REPORT  
ANALYSIS

# Five detection modes

Five detection modes can be selected freely: Rapid detection, single-item detection, comprehensive detection, real-time preview, and moisture detection.



Rapid detection

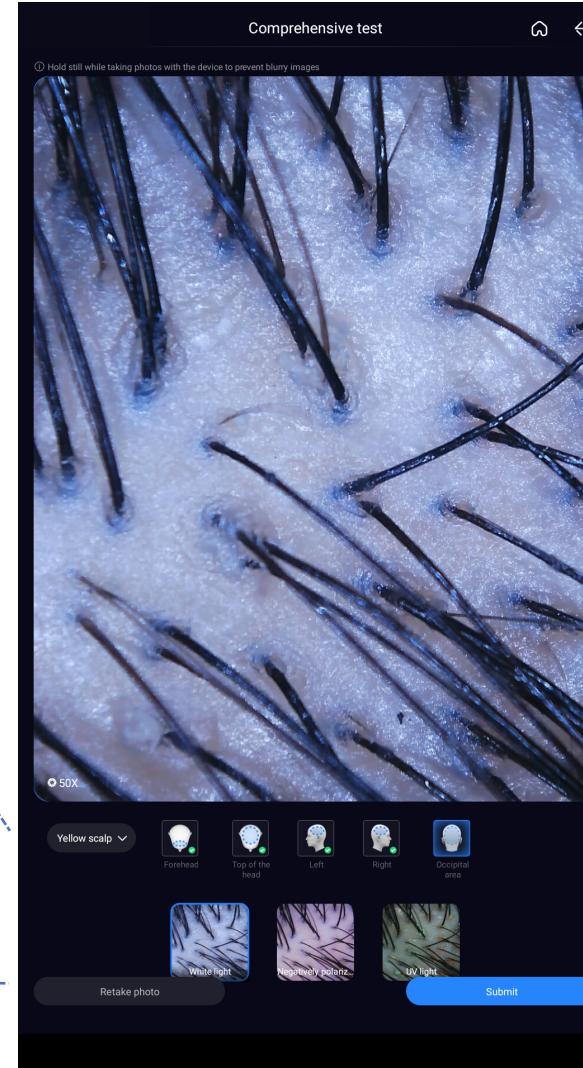
Comprehensive detection

Single-item detection

Real-time preview

Moisture detection

# Comprehensive detection mode 1



Switchable head skin color

Three-spectrum shooting.  
After all the shooting is completed, click "OK" to move to the next section. After the shooting is finished, you can choose to re-shoot or submit.

Take photos of five areas for examination: forehead, top of the head, left side, right side, and back of the head.

# Ultra-fast detection 2

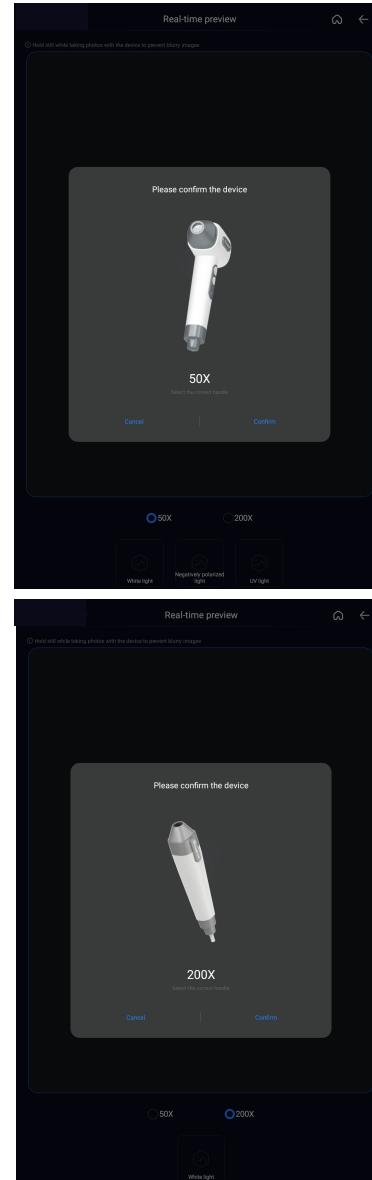
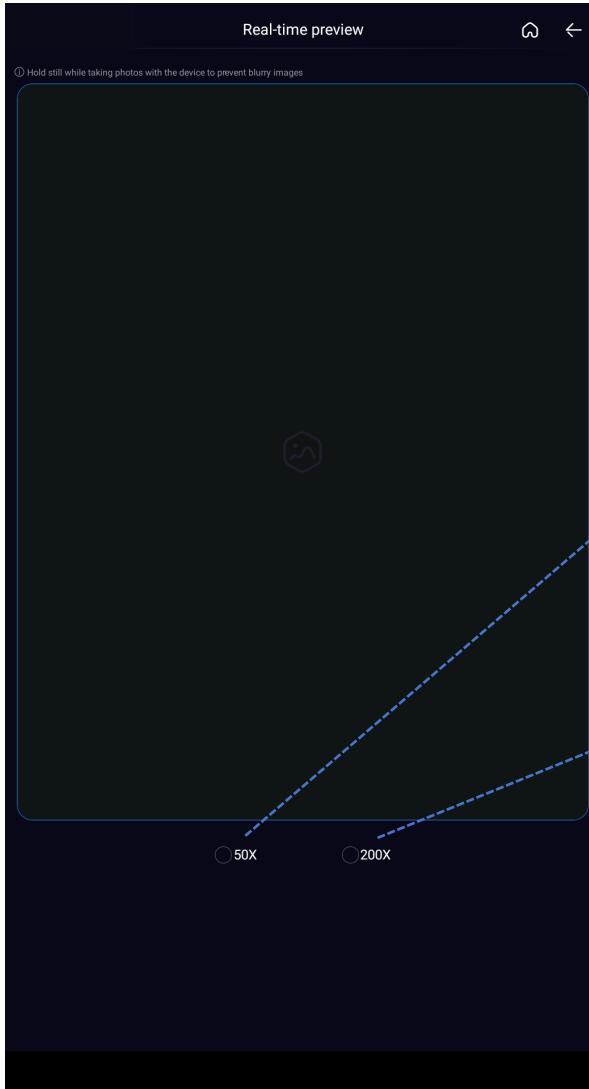


Switchable head skin color

Three-spectrum imaging allows for detection of any selected area. After the photo is taken, you can choose to retake it or confirm.

Detectable areas: The forehead, the top of the skull, the left side, the right side, or any part of the occipital region.

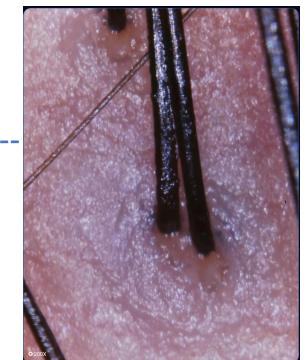
# Real-time preview 3



Hold the 50x magnification inspection tool

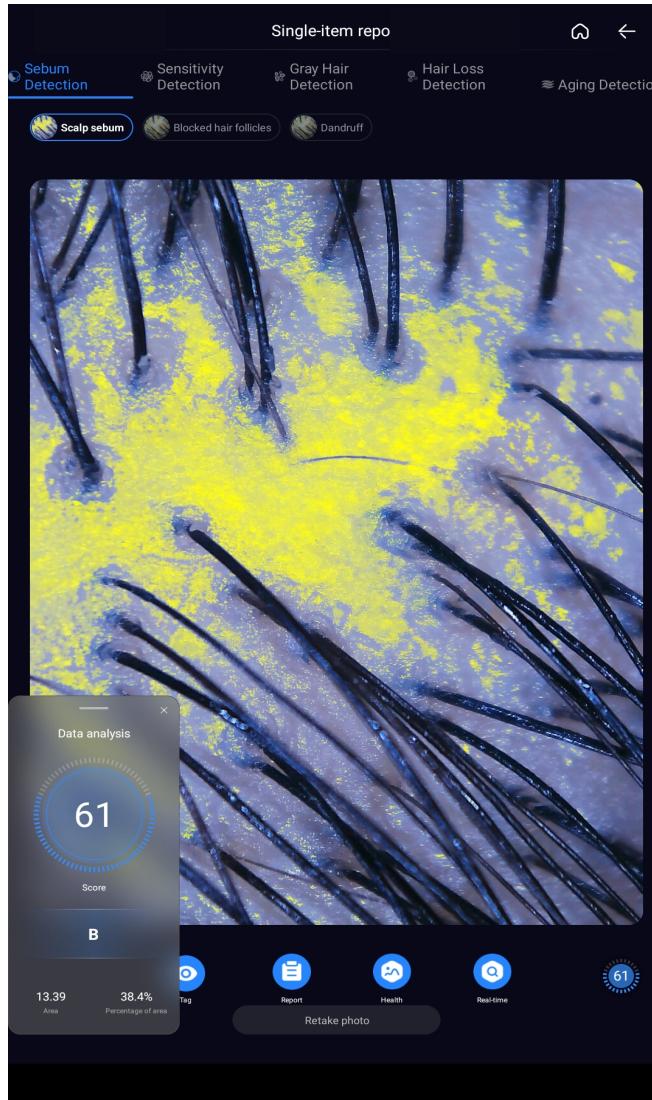
Immersive image viewing, no report. Handheld devices can be selected for switching.

Hold the 200x magnification inspection tool



200 Times magnified image

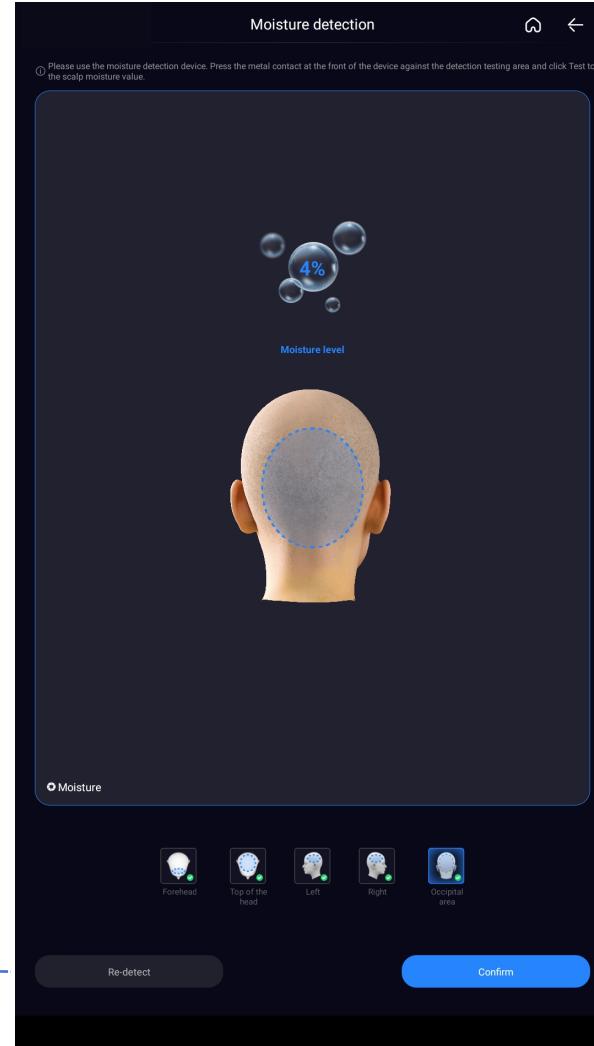
# Single-item detection 4



**Single-item detection can select any of the indicators such as oiliness, sensitivity, white hair, hair loss, or aging for 50X handheld photography, and generate a single-item report for any of these detections.**

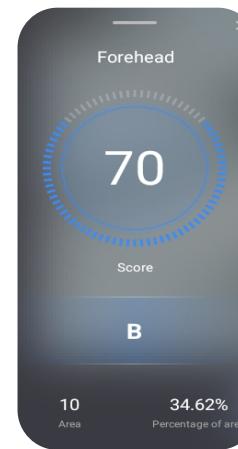
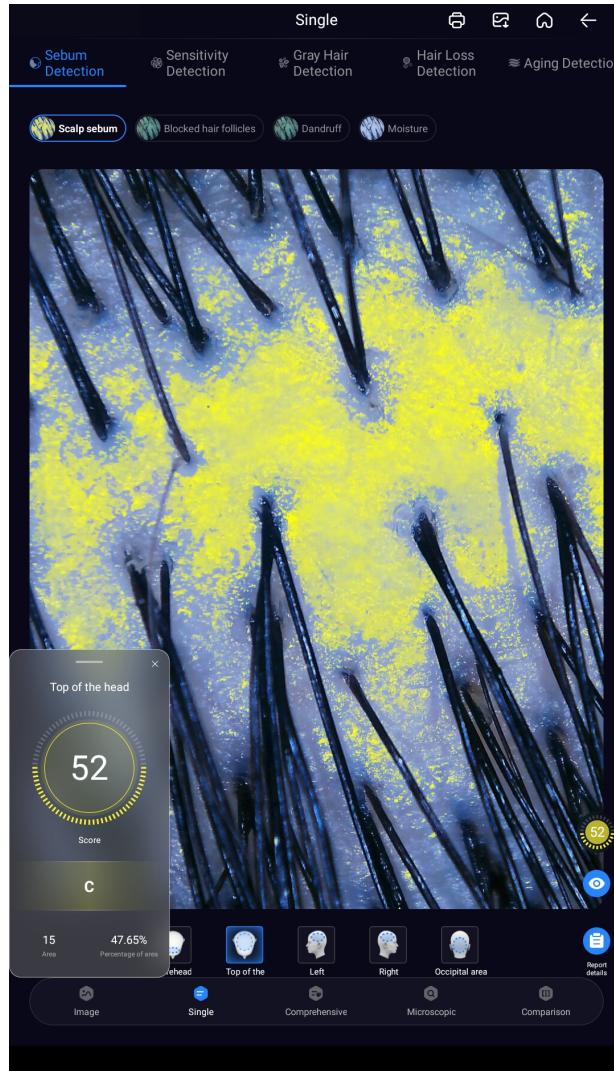
# Water content measurement 5

After the three-spectrum shooting is completed, go to the moisture detection page. You can click to detect the moisture, and after the detection is done, click "Confirm".



The test will be conducted on the five designated areas of the body to measure the moisture content of the scalp. Test areas: forehead, top of the head, left side, right side, and the back of the head.

# Three reporting modes - single independent report 1



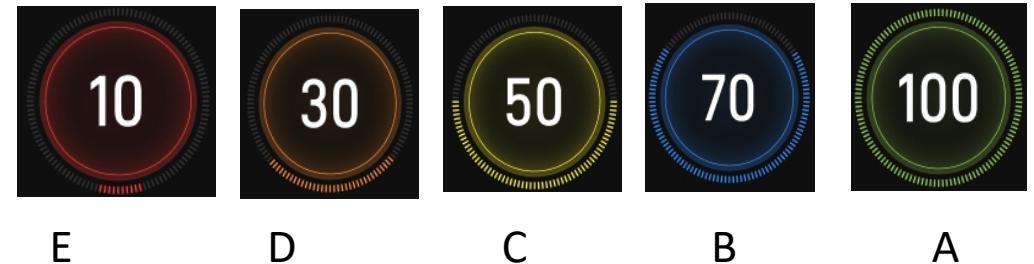
Data analysis

- 1.Score
- 2.Level
- 3.Quantity
- 4.Area
- 5.Proportion

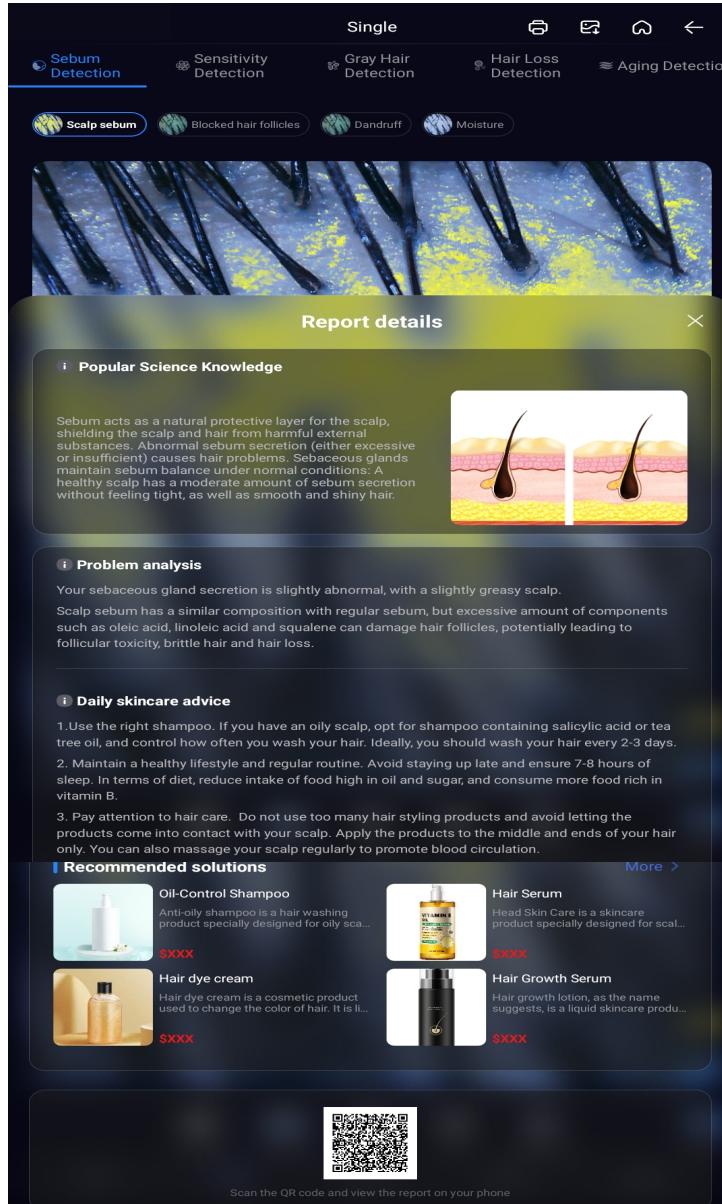
According to the scalp condition indicators, the five parts (forehead, top of the head, left side, right side, occiput area) are classified into 5 levels from high to low and marked with different colors:

A Green   B Blue   C Yellow   D Orange   E Red

Five parts



# Three reporting modes - single independent report 1



**Report details**

**Popular Science Knowledge**

Sebum acts as a natural protective layer for the scalp, shielding the scalp and hair from harmful external environment. Normal sebum secretion (either excessive or insufficient) causes hair problems. Sebaceous glands maintain sebum balance under normal conditions. A healthy scalp has a moderate amount of sebum secretion without feeling tight, as well as smooth and shiny hair.

**Problem analysis**

Your sebaceous gland secretion is slightly abnormal, with a slightly greasy scalp. Scalp sebum has a similar composition with regular sebum, but excessive amount of components such as oleic acid, linoleic acid and squalene can damage hair follicles, potentially leading to follicular toxicity, brittle hair and hair loss.

**Daily skincare advice**

- Use the right shampoo. If you have an oily scalp, opt for shampoo containing salicylic acid or tea tree oil, and control how often you wash your hair. Ideally, you should wash your hair every 2-3 days.
- Maintain a healthy lifestyle and regular routine. Avoid staying up late and ensure 7-8 hours of sleep. In terms of diet, reduce intake of food high in oil and sugar, and consume more food rich in vitamin B.
- Pay attention to hair care. Do not use too many hair styling products and avoid letting the products come into contact with your scalp. Apply the products to the middle and ends of your hair only. You can also massage your scalp regularly to promote blood circulation.

**Recommended solutions**

- Oil-Control Shampoo** Anti-oily shampoo is a hair washing product specially designed for oily scalp... \$XXX
- Hair Serum** Head Skin Care is a skincare product specially designed for scalp... \$XXX
- Hair dye cream** Hair dye cream is a cosmetic product used to change the color of hair. It is li... \$XXX
- Hair Growth Serum** Hair growth lotion, as the name suggests, is a liquid skincare produ... \$XXX

Scan the QR code and view the report on your phone

Popular science knowledge

Problem analysis

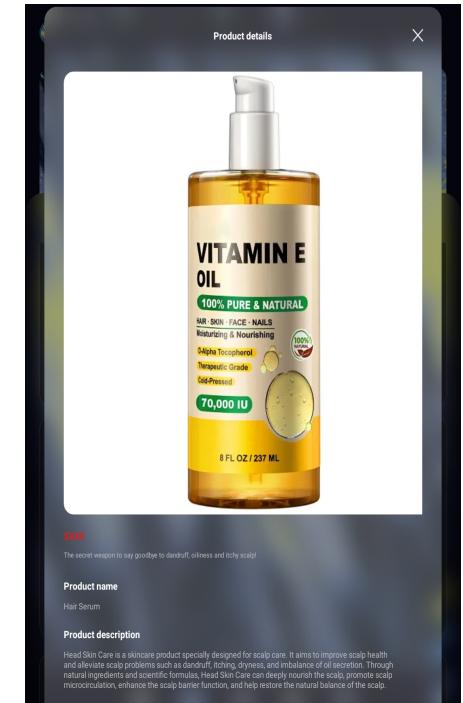
Nursing advice

Recommended solutions

QR code report



Report details

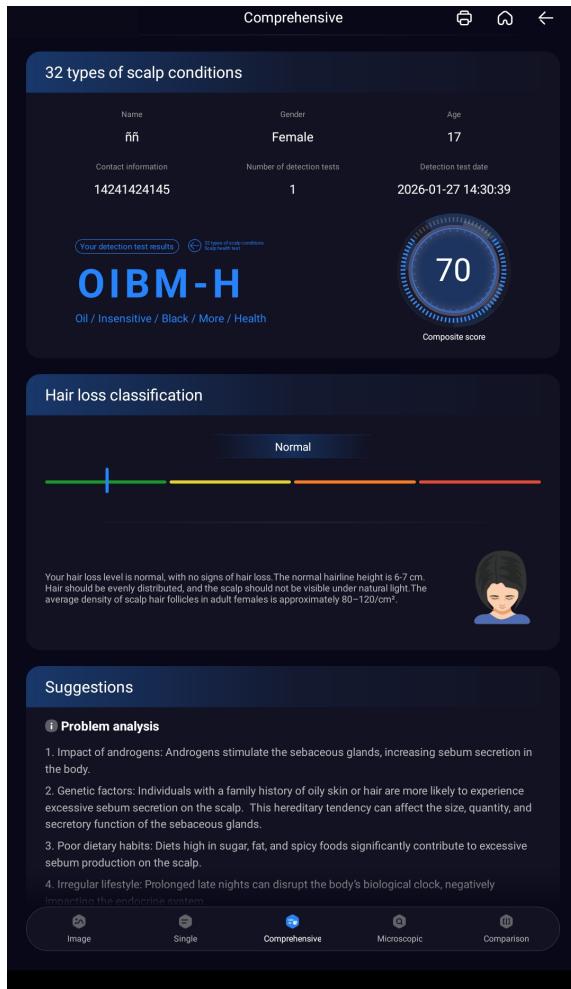


Recommendation page for solutions

## Type 32 scalp classification

32 - type Scalp Classification			
OSBL - D	Oily/Sensitive/Black hair/Hair loss - Aging	OSBL - H	Oily/Sensitive/Black hair/Hair loss - Healthy
OSBM - D	Oily/Sensitive/Black hair/No hair loss - Aging	OSBM - H	Oily/Sensitive/Black hair/No hair loss - Healthy
OSWL - D	Oily/Sensitive/White hair/Hair loss - Aging	OSWL - H	Oily/Sensitive/White hair/Hair loss - Healthy
OSWM - D	Oily/Sensitive/White hair/No hair loss - Aging	OSWM - H	Oily/Sensitive/White hair/No hair loss - Healthy
DSBL - D	Dry/Sensitive/Black hair/Hair loss - Aging	DSBL - H	Dry/Sensitive/Black hair/Hair loss - Healthy
DSBM - D	Dry/Sensitive/Black hair/No hair loss - Aging	DSBM - H	Dry/Sensitive/Black hair/No hair loss - Healthy
DSWL - D	Dry/Sensitive/White hair/Hair loss - Aging	DSWL - H	Dry/Sensitive/White hair/Hair loss - Healthy
DSWM - D	Dry/Sensitive/White hair/No hair loss - Aging	DSWM - H	Dry/Sensitive/White hair/No hair loss - Healthy
OIBL - D	Oily/Non - sensitive/Black hair/Hair loss - Aging	OIBL - H	Oily/Non - sensitive/Black hair/Hair loss - Healthy
OIBM - D	Oily/Non - sensitive/Black hair/No hair loss - Aging	OIBM - H	Oily/Non - sensitive/Black hair/No hair loss - Healthy
OIWL - D	Oily/Non - sensitive/White hair/Hair loss - Aging	OIWL - H	Oily/Non - sensitive/White hair/Hair loss - Healthy
OIWM - D	Oily/Non - sensitive/White hair/No hair loss - Aging	OIWM - H	Oily/Non - sensitive/White hair/No hair loss - Healthy
DIBL - D	Dry/Non - sensitive/Black hair/Hair loss - Aging	DIBL - H	Dry/Non - sensitive/Black hair/Hair loss - Healthy
DIBM - D	Dry/Non - sensitive/Black hair/No hair loss - Aging	DIBM - H	Dry/Non - sensitive/Black hair/No hair loss - Healthy
DIWL - D	Dry/Non - sensitive/White hair/Hair loss - Aging	DIWL - H	Dry/Non - sensitive/White hair/Hair loss - Healthy
DIWM - D	Dry/Non - sensitive/White hair/No hair loss - Aging	DIWM - H	Dry/Non - sensitive/White hair/No hair loss - Healthy

# Three reporting modes - comprehensive analysis report 2

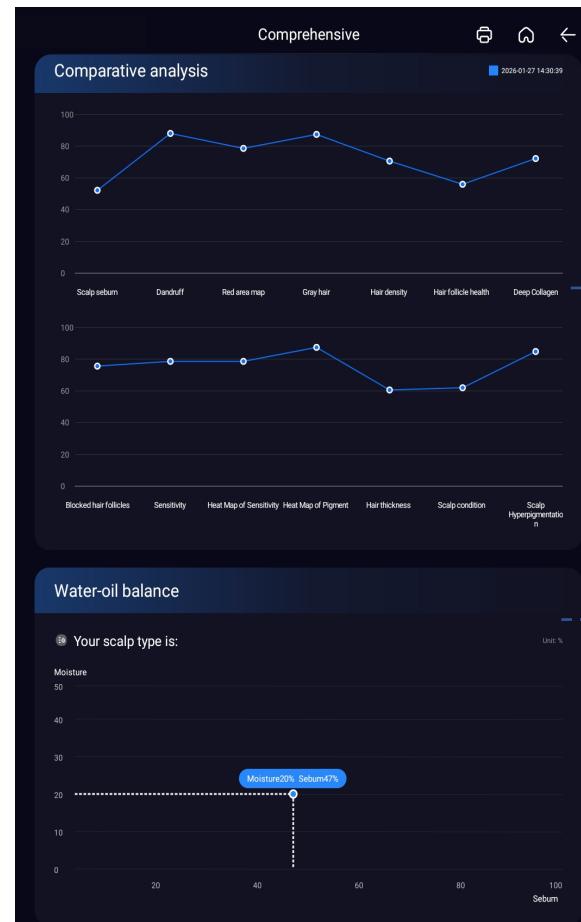


## Personal information

## 32 types of scalp conditions

## Hair loss classification

## Suggestions

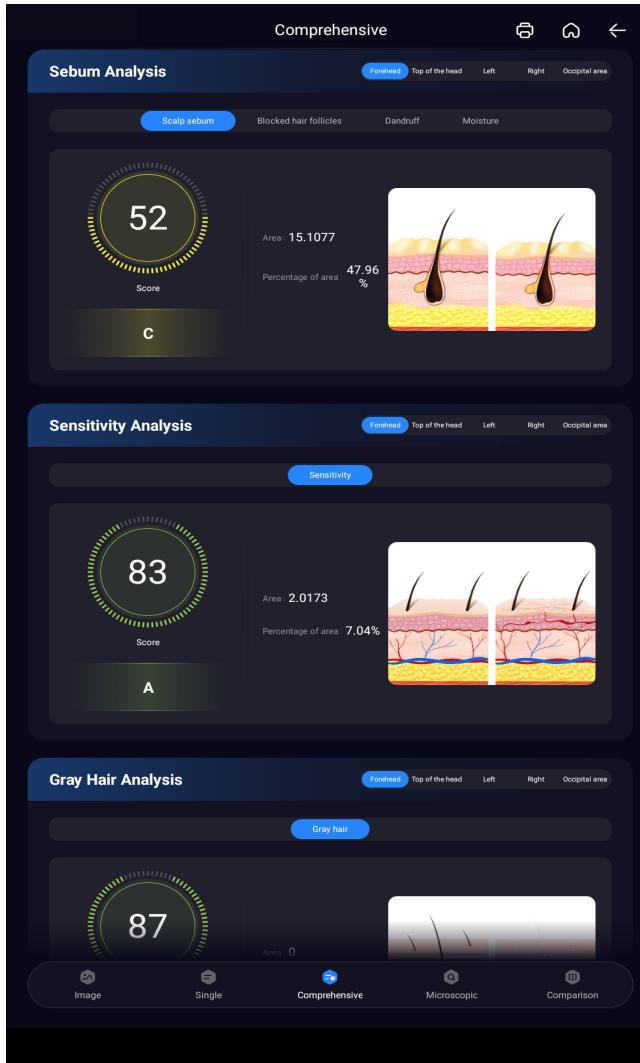


## Comparative analysis

Scores of each individual test item

## Water-oil balance

## Three reporting modes - comprehensive analysis report 2

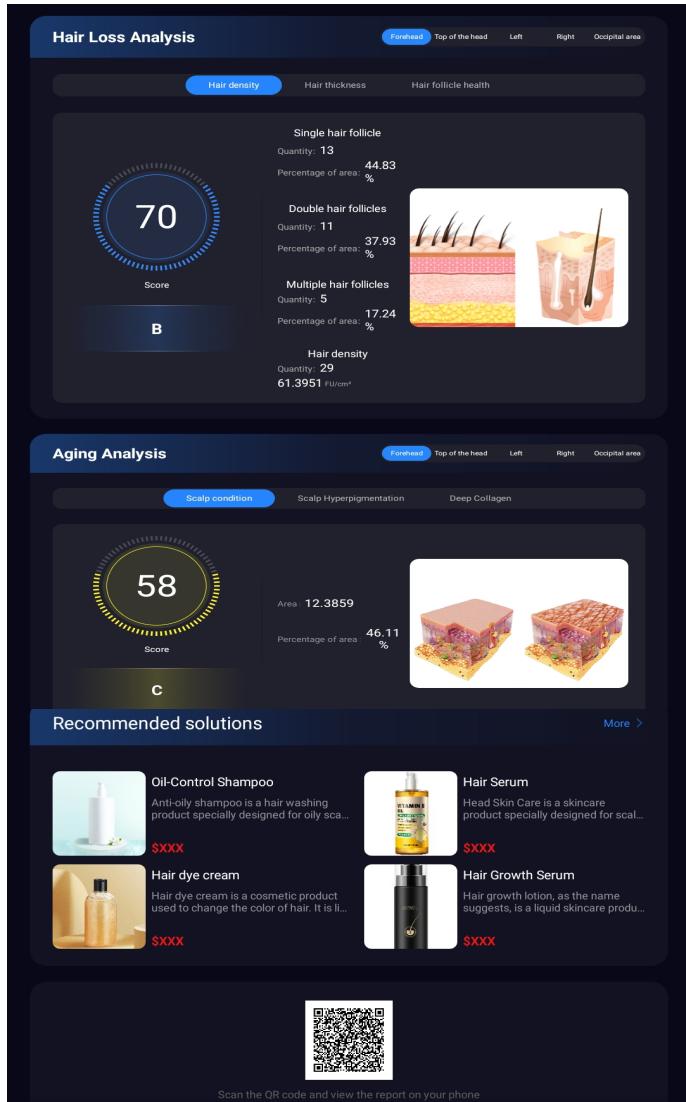


Sebum analysis

Sensitivity analysis

Gray hair analysis

# Three reporting modes - comprehensive analysis report 2

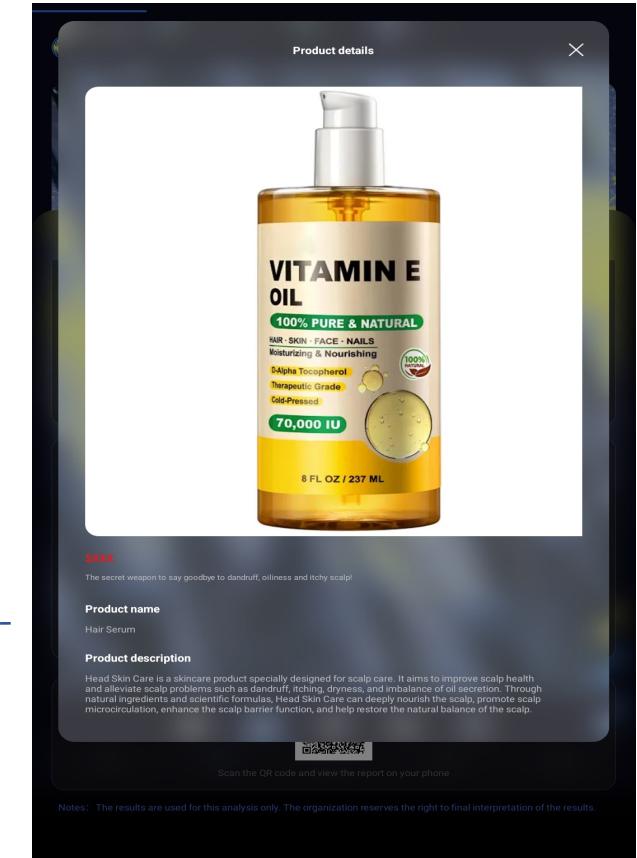


**Hair loss analysis**

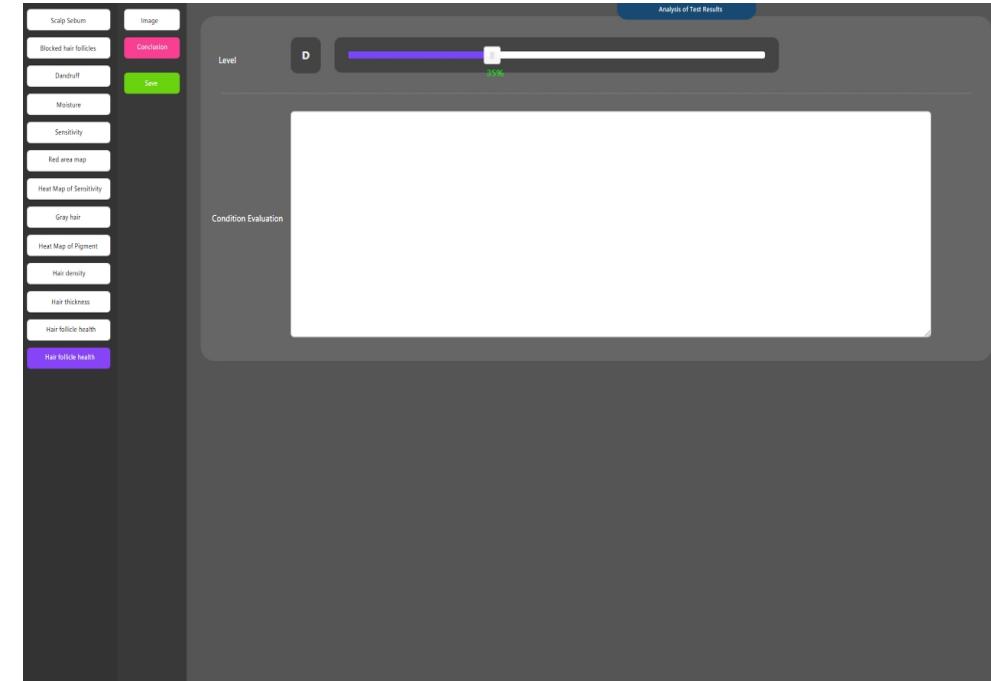
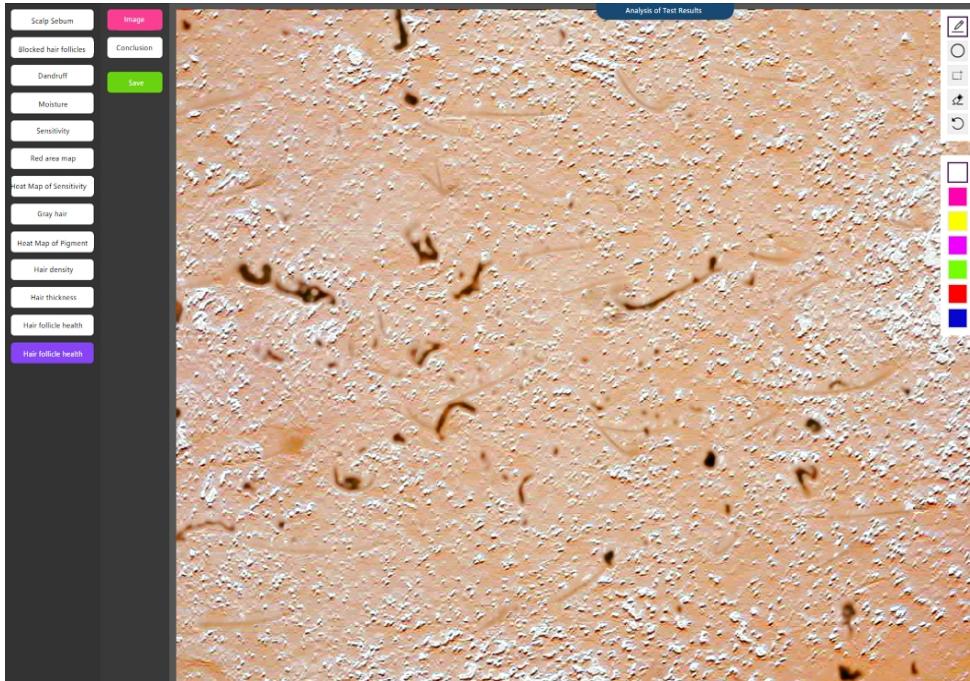
**Aging analysis**

**Scheme recommendation**

**QR code report**



# Three reporting modes - cucstom report 3



The background allows independent selection of images to be edited for annotation.

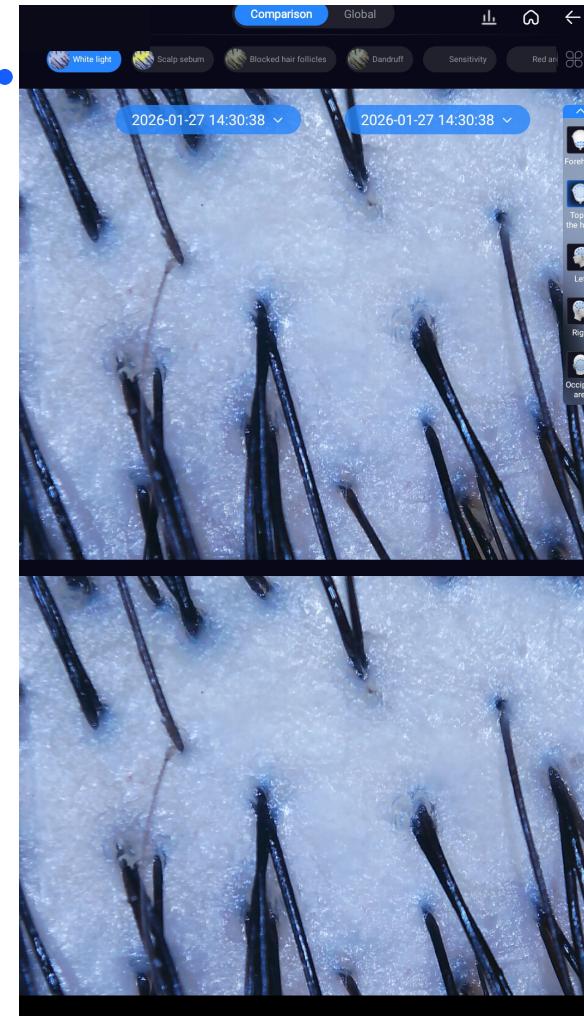
Customize any test results you want.

Each indicator can be adjusted for results.

Text can be edited freely.

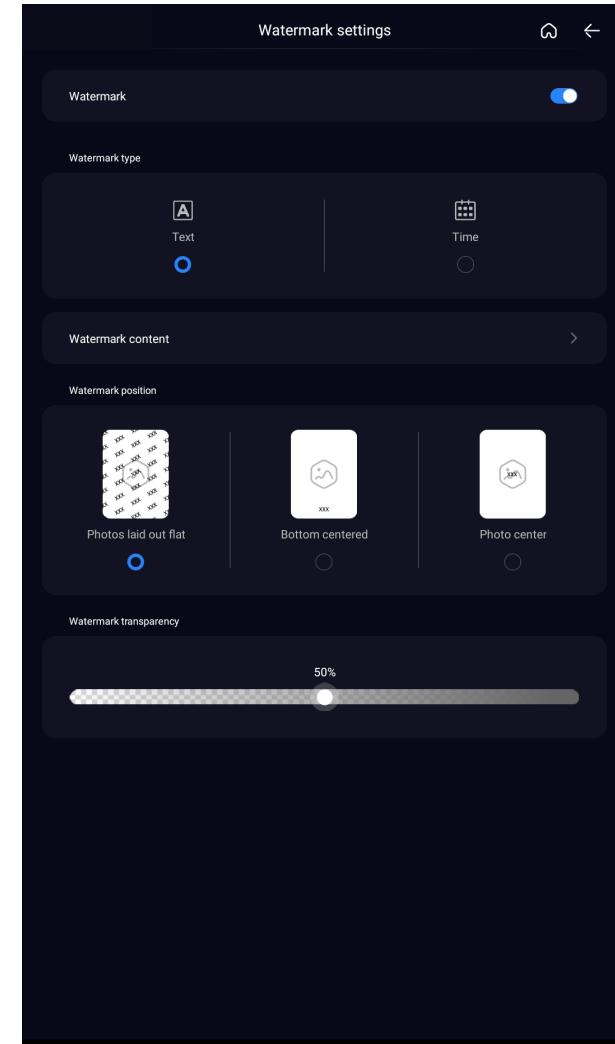
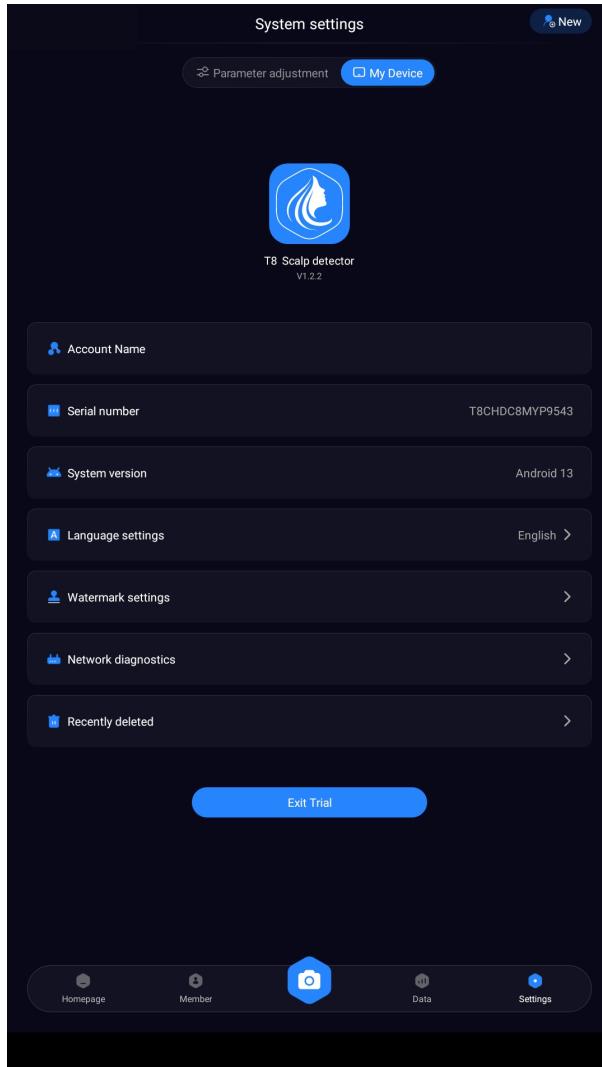
# Comparison function

Multiple detection indicators, comparison of effects before and after nursing.



Switch to different sections to view the comparison.

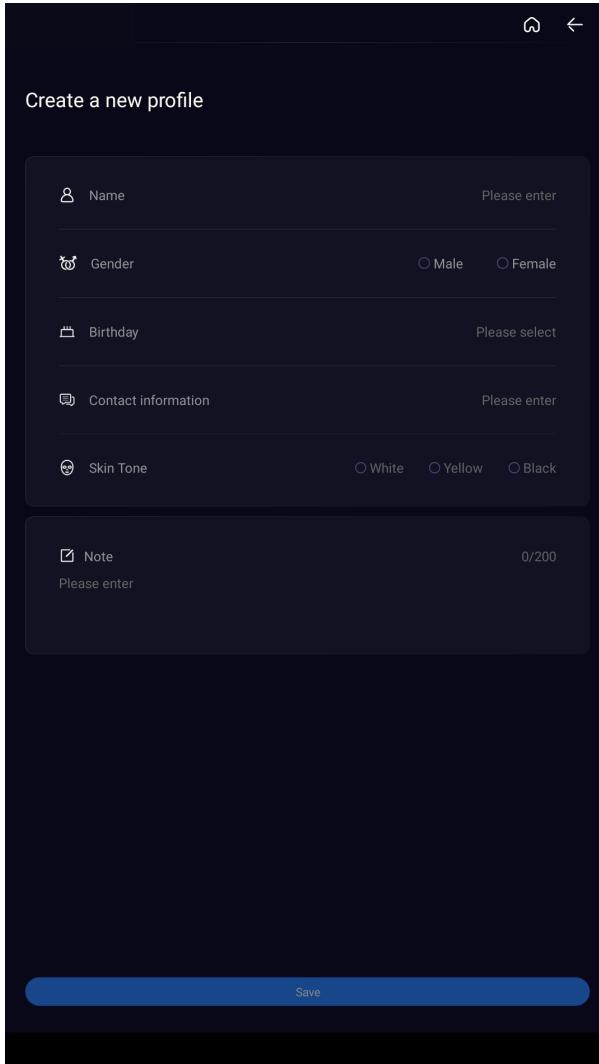
# Special feature -watermark function



Watermark switch

Turn on the watermark switch to customize text watermarks and image watermarks.

# Special feature - birthday reminder function



Create a new profile

Name: Please enter

Gender: Male Female

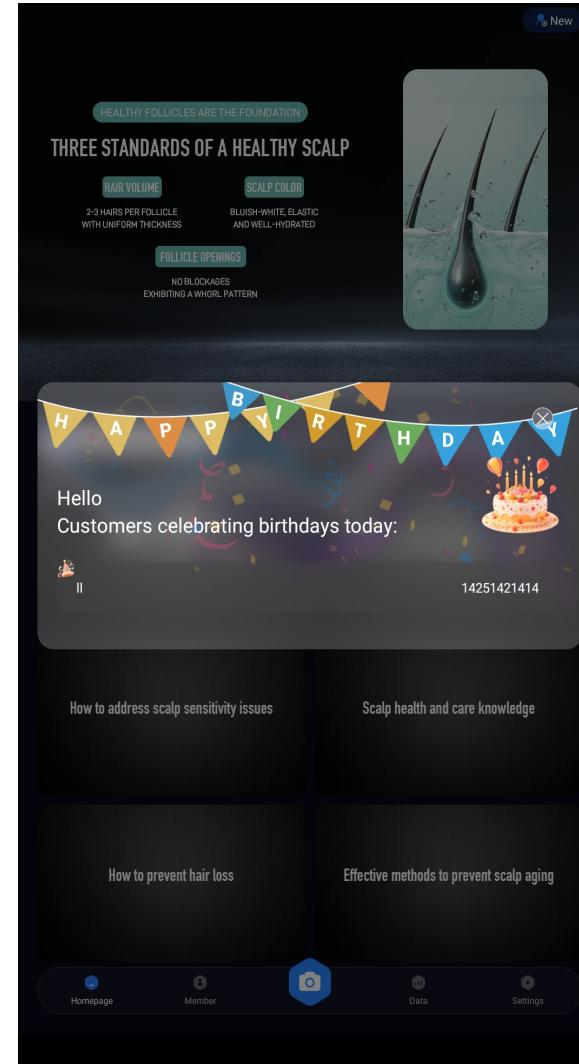
Birthday: Please select

Contact information: Please enter

Skin Tone: White Yellow Black

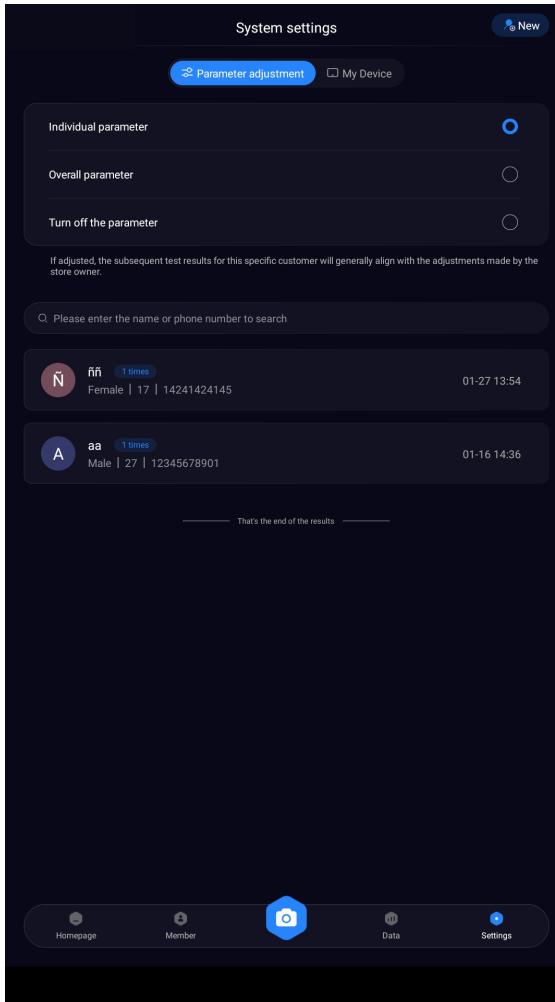
Note: Please enter 0/200

Save

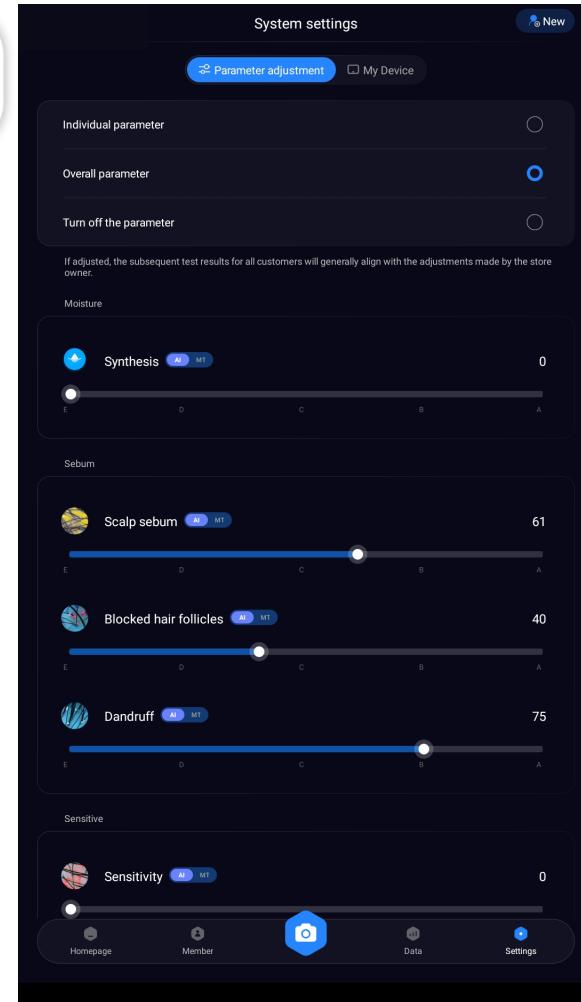


Automatically push the list of customers with birthdays on the day to enhance customer stickiness.

# Parameter adjustment



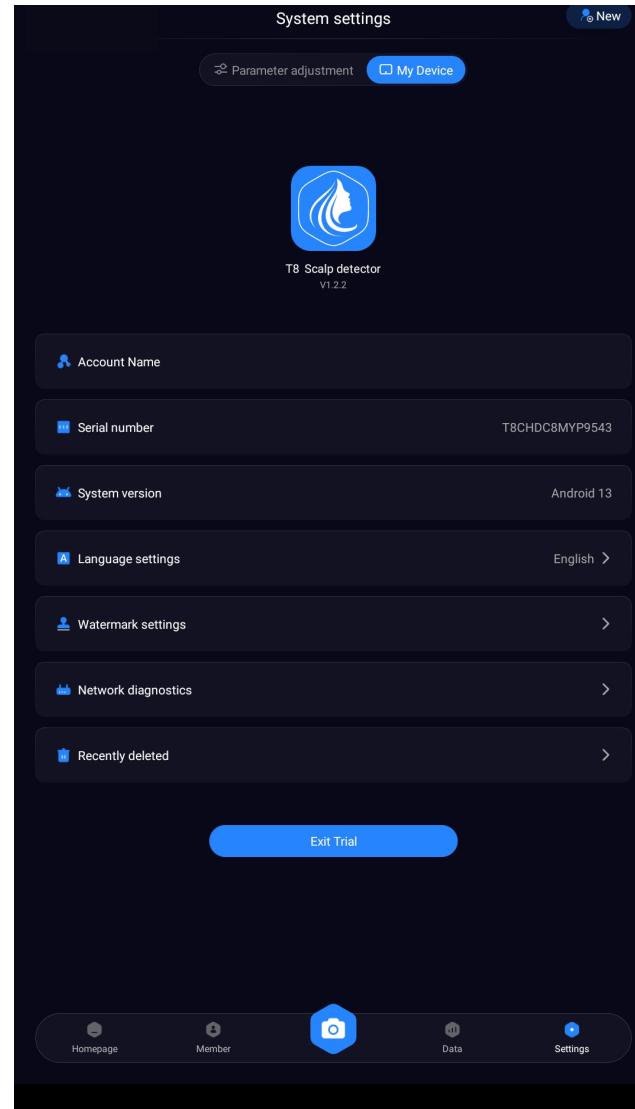
parameter  
adjustment



**Data result  
optimization,  
manual debugging**

It can be adjusted either  
individually or as a whole.

# My devices



Serial number

Language settings

## Back-stage management

Free entry  
nursing project

Multiple  
equipment  
unified  
management

Real time  
executive  
customer file

View in real  
time  
test records  
and edit



T8 AI Intelligent scalp analyzer

04

## HARDWARE SPECIFICATIONS

# Hardware parameters

【T8 AI Intelligent scalp analyzer】

## Parameter information

T8

Type number	T8
Light spectrum	White light, negative polarization, UV
Product material	Industrial grade ABS
Electric source	AC100-260V,50/60Hz
Product size	354 x215 x518mm
Central processing unit	The Cortex-A53 has up to 2.3GHz octa-core
Main plate	MTK-D3603 motherboard with Android 13 operating system
Internal memory	Dual channel LP DD R4, 4G
Hard disk	MMC5 .1, 32G
Mode of operation	Multipoint capacitive touch
Screen feature	Portrait display
WIFI	Built-in dual-band WiFi(2.4G, 5G)
HDMI	1 Pcs
USB	4 Pcs
Screen scale	16:9
Screen size	18.5 inches
Screen pixel	1920 * 1080
Other accessories	Multifunctional micro-Inspection hand, 200px hand, hand bracket, power cord
Net weight of instrument	7.4 KG
Packing weight	11 KG
Box size	620*290*430 MM
Packaging material	Corrugated paper + pearl cotton

## Hardware parameters



## Product patent, test report, certification certificate display



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