

K55 AI Skin analyzer

LEAD TECHNOLOGY CREATE BEAUTY

COMPREHENSIVE UPGRADE OF COLLECTION, IMAGING, DATA, AND EFFICIENCY

Catalogue

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COVER**

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AND CORE
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AND
REPORT**

04

**HARDWARE
SPECIFICAT
IONS**



K55 AI Skin analyzer

01

FUNCTIONS
COVER

K55 AI Skin analyzer

K55 AI Skin analyzer: The development is oriented towards solving skin problems. It integrates eight major spectral imaging technologies and simultaneously captures three fixed angles of the front face, left face, and right face, achieving a 270° all-round coverage without any blind spots. The original intention of the development is to conduct professional and objective analysis of eighteen issues of facial skin and provide flexible operations. With one-click photo analysis, a report can be generated, making the operation more convenient.



Function demo

PRODUCT TESTING

EIGHT SPECTRAL IMAGING

THREE-DIMENSIONAL SHOOTING

DATA CLOUD STORAGE

EIGHTEEN DETECTION INDICATORS

FILE MANAGEMENT

MICROSCOPIC EXAMINATION

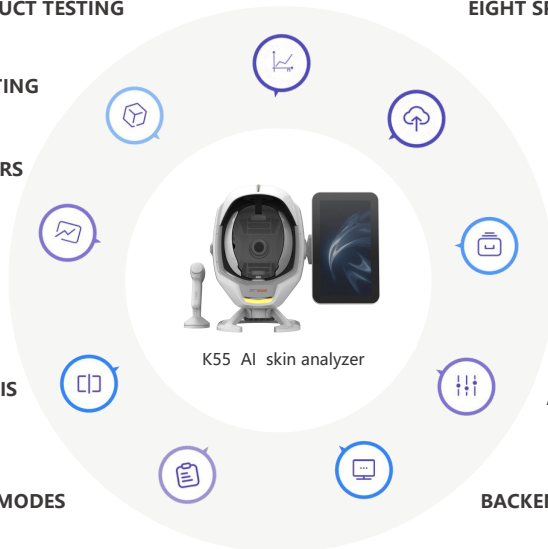
SKIN-COLOR DETECTION

THREE COMPARATIVE ANALYSIS
MODES

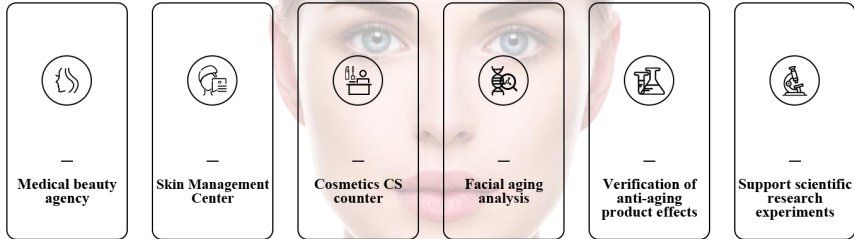
ADJUSTING SKIN TEST RESULTS

THREE REPORTING MODES

BACKEND SYSTEM MANAGEMENT

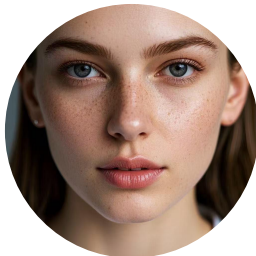


Adapt to the scene



Analysis of **5** major symptoms

30+ Detection dimensions



Product analysis



Sunscreen

Analysis of aging



Forehead lines



Dorsal nasal lines



Lines around the eyes



Crow's feet



Nasolabial folds

Pigment analysis



Mole



Freckles



Acne marks



Spots



UV spot



Pigment green chart

Sensitive analysis



Acne



Redness



Acne rosacea



Barrier

Skin quality analysis



Pores



Porphyrin



Wrinkle



Moisture



Skin color

Home page

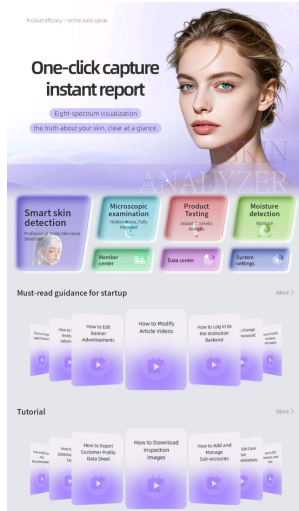
Smart skin detection

Product testing

Member center

System settings

Tutorial



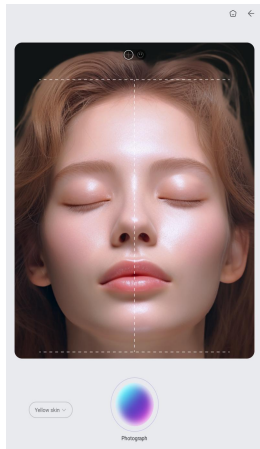
Microscopic examination

Moisture detection

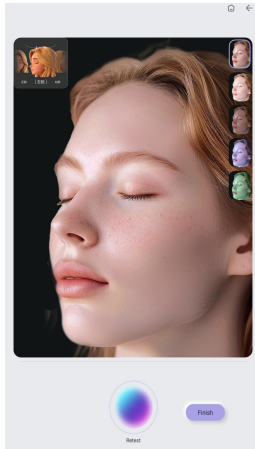
Data center

Must-read guidance
for startup

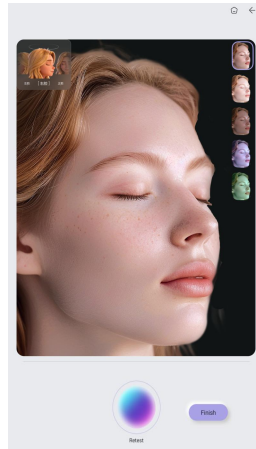
3D Panoramic view



Front face

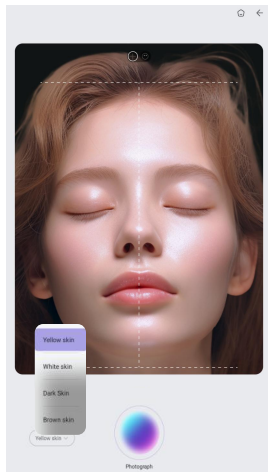


Left cheek



Right cheek

Industry pioneer - customized skin color testing



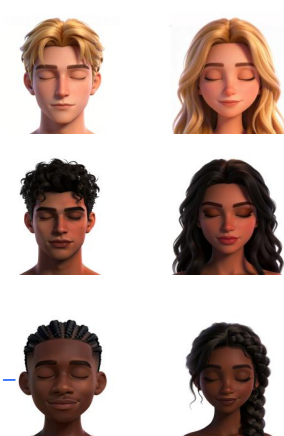
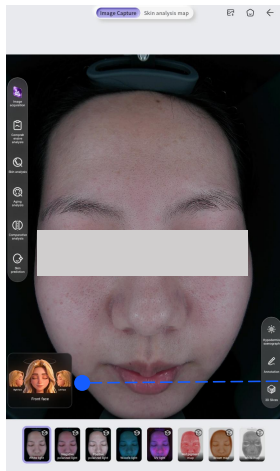
Yellow skin

White skin

Black skin

Brown skin

Industry pioneer - customized skin color testing



Multi dimensional perspective model display changes based on skin color selection

The industry's first skin color detection mode optimizes detection algorithms and evaluation dimensions based on the skin characteristics of different races and skin tones



K55 AI Skin analyzer

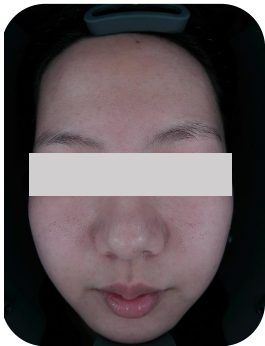
02

IMAGE
ANALYSIS
AND CORE
INDICATORS

•Eight spectral images



Eight spectral image analysis



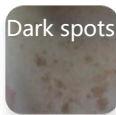
White light

THEORY

Visible spots and other blemishes on the skin surface (acne, spots, wrinkles, pores, etc.) under natural light sources, which are mainly used as the basis for other spectral image comparison.



Acne



Dark spots



Wrinkle



Pore

Eight spectral image analysis

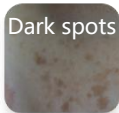


Negative polarized light

THEORY

Using negative polarized technology to filter out the refracted light on the skin surface, so that you can clearly examine the light brown, tan, dark brown, light yellow or dark red skin lesions; It can distinguish the condition of capillaries, facial acne, uniformity skin and other skin problems.

Dark spots



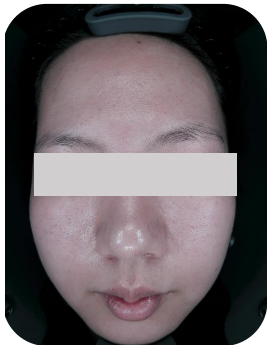
Pigment



Acne



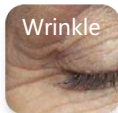
Eight spectral image analysis



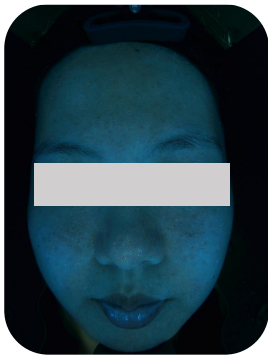
Positive polarized light

THEORY

Positive polarized light can improve the clarity of superficial texture, magnify local details, so as to clearly observe the smoothness of skin, fine lines and wrinkles and bumps (wrinkles, pores, Acne scars, Acne, etc).



Eight spectral image analysis



Wood' s light

THEORY

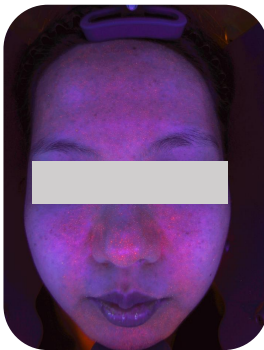
Wood' s light can detect deep pigments in dermis. The principle behind this is that melanin does not fluoresce after exposure to ultraviolet radiation, allowing melanin to stand out more clearly with stronger contrast.

Spots

Spots

Fluoresce-
nce

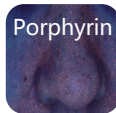
Eight spectral image analysis



UV light

THEORY

Under UV light source, the content and distribution of the purple pigment bilirubin are displayed clearly through fluorescence, which can be used for the auxiliary diagnosis and efficacy observation of pigmentary dermatoses, pore issues, skin infections, and porphyria.



Eight spectral image analysis



Red light

THEORY

Using the RBX light source technology, it is applied for analyzing the subcutaneous hemoglobin on the face as well as inflammatory pigmentation (such as sensitive skin, lesions, acne, red blood vessels, etc, which are skin inflammatory conditions)

Acne



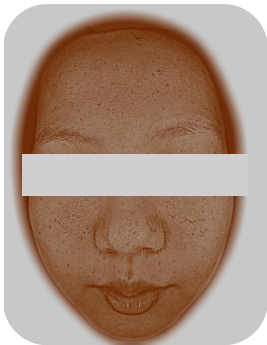
Blood
streak



Mole



Eight spectral image analysis



Brown light

THEORY

The position, area, shape, and severity of subcutaneous facial UV spots are processed by using RBX light source technology, which demonstrate skin damage from UV radiation and the accumulation of subcutaneous melanin.

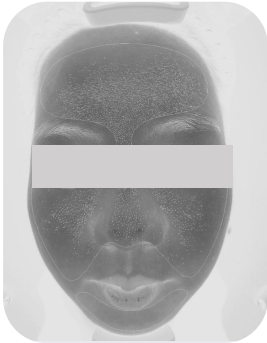


Mole



Freckles

Eight spectral image analysis



Mixed light

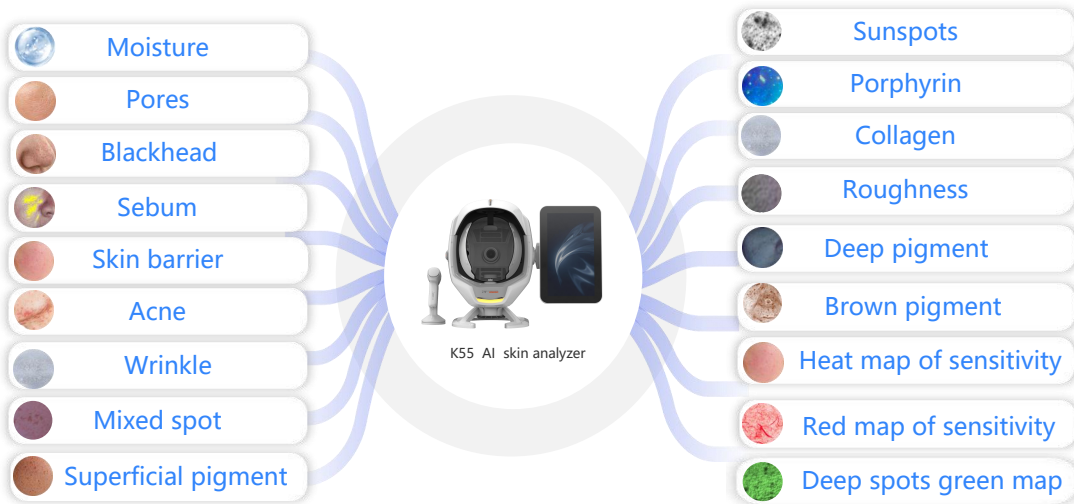
THEORY

Skin texture roughness and collagen loss were revealed by polarizing analysis.

Rough
texture

Wrinkle

Eighteen testing indicators



32 Detection Functions - **microscopic detection**

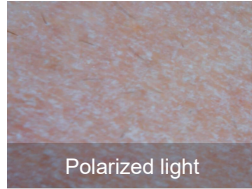
- Microscopic imaging of skin details presentation



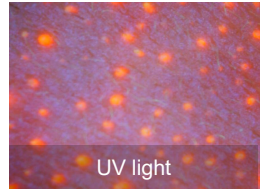
Handheld skin microimager



White light



Polarized light



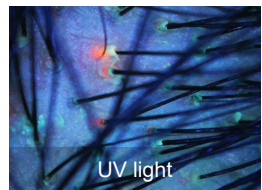
UV light



White light



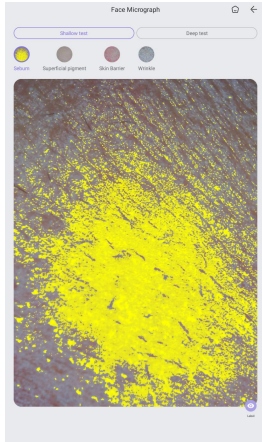
Polarized light



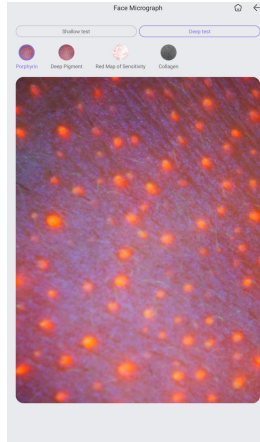
UV light

Multiple light source targeting analysis

Microscopic examination - eight aspects of skin details



Skin surface test

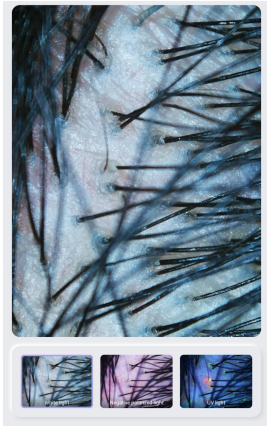


In-depth test



Handheld skin microimager

Microscopic examination - scalp details

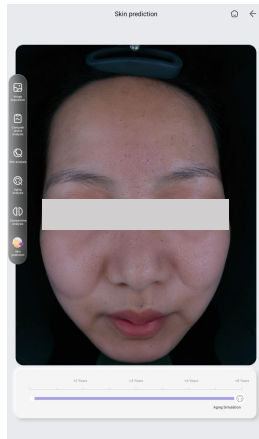


Multiple light sources
detect skin problems



Handheld skin microimager

32 Detection Functions - skin prediction

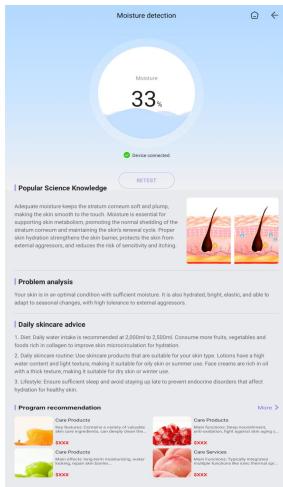
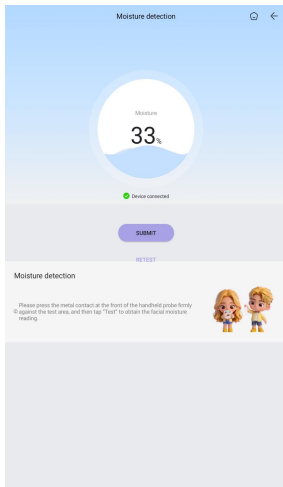


Deeply predict the future of the skin and awaken customers' desire for young skin.

According to the current skin condition of the customer, through the training of AI large model, simulate the skin condition after customer care and the aging situation of different age groups.

Aging simulation

32 Detection Functions - moisture detection



Popular Science knowledge

Problem analysis

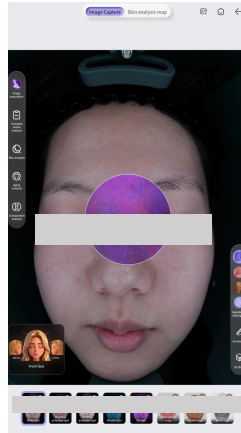
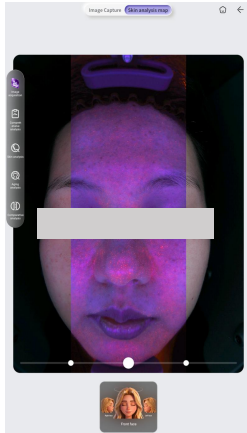
Daily skincare advice

Program recommendation

32 Detection Functions - analysis diagram + skin substrate visualization

Analysis diagram

Through white light, negative polarized light and UV light source comparison, multi-dimensional, deep analysis of skin problems.



Click the bottom of the skin perspective button on the right to expand three icons: UV light image, hemoglobin image, and brown image. Drag the perspective mirror freely to compare issues such as pigmentation, redness, and skin inflammation between the superficial and basal layers of the skin.

32 Detection Functions - birthday reminder function

Create New Profile

Username Please enter

Gender ☒ Male ☐ Female

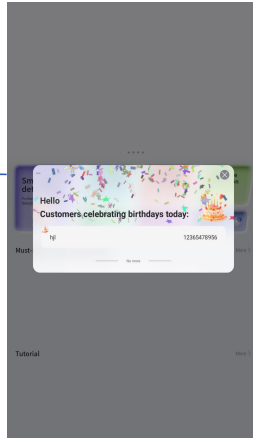
Birthday Please select

Contact information Please enter

Consultant Please enter

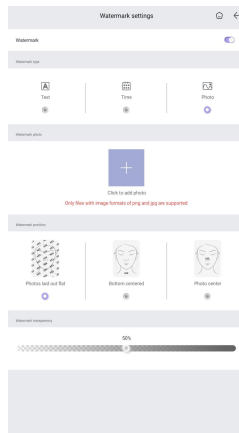
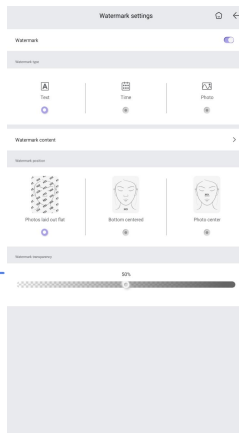
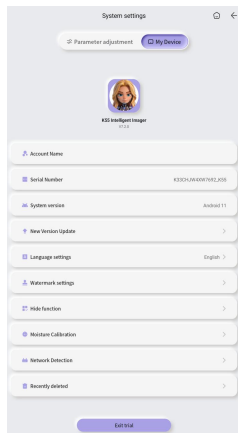
Skin Tone

Save



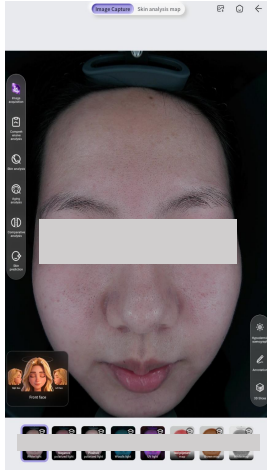
Automatically send out the list of customers whose birthdays are on that day, in order to enhance customer retention.

32 Detection Functions - watermark function



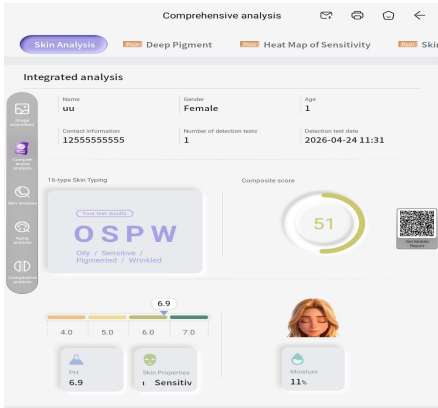
Customizable
text watermark,
image watermark

32 Detection Functions - 3D slicing function



3D slicing is the core function of layered scanning, tomographic imaging, and data quantification of different layers of the skin (epidermis, superficial dermis, etc.), which can intuitively present the health status and problem distribution of the deep layers of the skin.

32 Detection Functions - pH, skin properties, skin age



Skin Age

is a quantitative indicator of the true aging state of the skin. By manually labeling samples from individuals over 18 years old and utilizing deep learning and feature extraction from AI large models, skin age is accurately calculated. This identifies the root causes of looking "aged" and reflects the health of core anti-aging dimensions such as collagen, wrinkles, and pigmentation.

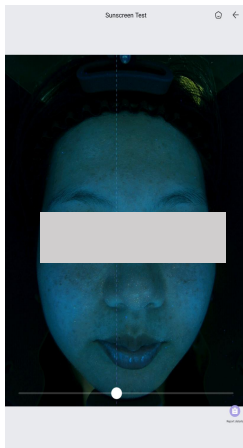
pH

Healthy skin typically has a weakly acidic pH (4.5~6.5), which helps maintain the skin barrier, retain moisture, and inhibit bacteria. It can assist in determining whether the skin is acidic or alkaline, whether the barrier is weak, and whether issues such as sensitivity, dryness, oiliness, or redness are present.

Skin Attributes

Intelligently identifies skin type, providing a scientific basis for daily skincare and product selection.

32 Detection Functions - product detection functions



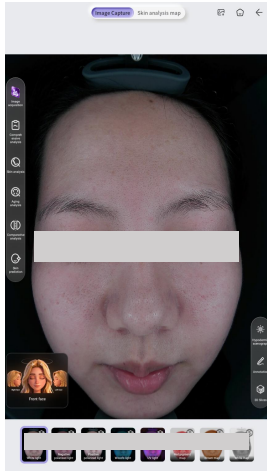
Science basics

Problem analysis

Care tips

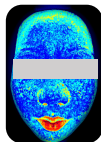
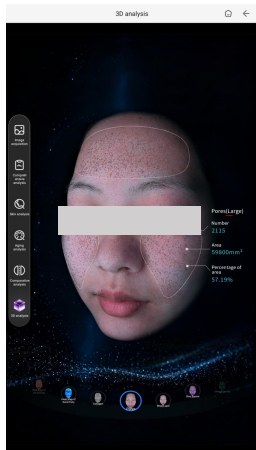
Program recommendation

32 Detection Functions - **annotation pen**

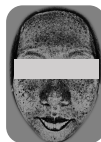


The annotation function uses tools to annotate visible skin issues (such as redness and spots) on images, visually displaying the condition and facilitating the explanation of skincare advice.

32 Detection Functions - 3D Analysis



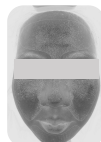
Heat Map of Sensitivity



Sunsports



Red Map of Sensitivity



Collagen

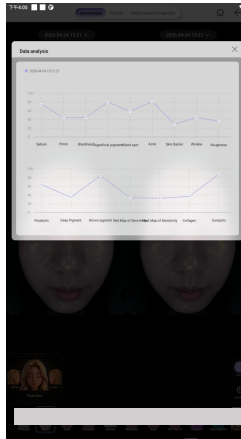
3D Stereo Analysis reconstructs the 3D facial skin contour. It supports nine core skin-detection metrics: mixed pigment, deep pigment, brown pigment, UV spot, red map of sensitivity, heat map of sensitivity, collagen, pores and skin barrier. It can quantitatively calculate pore count, actual area and area proportion, and intuitively display pore texture conditions with objective data to analyze pore-related issues from multiple dimensions.



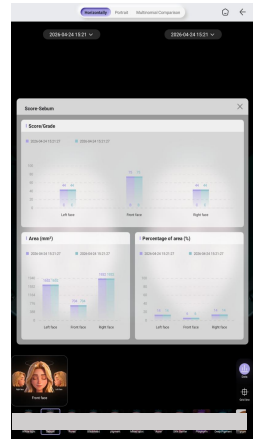
K55 AI Skin analyzer

03

ANALYSIS
AND
REPORT

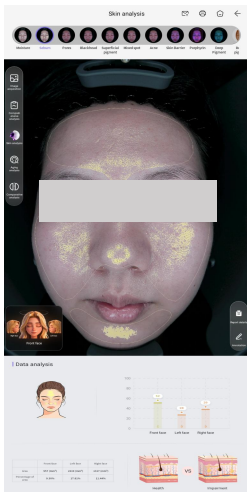


Data analysis



Data comparison

Three comparison modes - single independent report 1

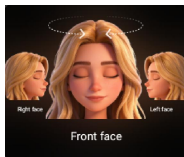


- 1.Score
- 2.Level
- 3.Quantity
- 4.Area
- 5.Proportion

Enable consumers to accurately understand their skin problems

Accurately quantify the underlying effects and empower doctors to treat

A Level (100-81 points) Good
 B Level (80-61 points) Fair
 C Level (60-41 points) Poor
 D Level (40-21 points) Warning
 E Level (20-0 points) Severe

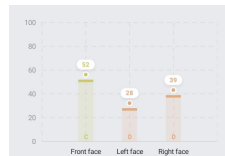


Multidimensional perspective

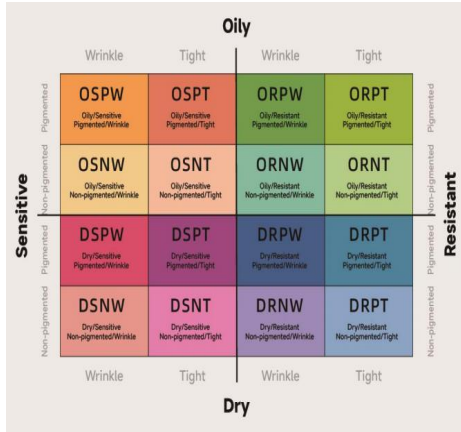
Manual selection, comprehensive image display from multiple angles

Divided into 5 levels from high to low according to skin condition and labeled with different colors:

A Green B Blue C Yellow D Orange E Red



The classification of 16 skin types in baumann skin typing system



16Type	Explanation	16Type	Explanation
DSPT	Dry, Sensitive, Pigmented, Tight	OSPT	Oily, Sensitive, Pigmented, Tight
DSPW	Dry, Sensitive, Pigmented, Wrinkle	OSPW	Oily, Sensitive, Pigmented, Wrinkle
DSNT	Dry, Sensitive, Non - Pigmented, Tight	OSNT	Oily, Sensitive, Non - Pigmented, Tight
DSNW	Dry, Sensitive, Non - Pigmented, Wrinkle	OSNW	Oily, Sensitive, Non - Pigmented, Wrinkle
DRPT	Dry, Resistant, Pigmented, Tight	ORPT	Oily, Resistant, Pigmented, Tight
DRPW	Dry, Resistant, Pigmented, Wrinkle	ORPW	Oily, Resistant, Pigmented, Wrinkle
DRNT	Dry, Resistant, Non - Pigmented, Tight	ORNT	Oily, Resistant, Non - Pigmented, Tight
DRNW	Dry, Resistant, Non - Pigmented, Wrinkle	ORNW	Oily, Resistant, Non - Pigmented, Wrinkle

Three reporting modes - comprehensive analysis report 2



16-Type skin classification and comprehensive score

PH, skin properties, moisture

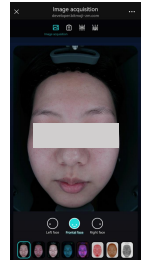
Scan the QR code

Suggestions

Single-Item analysis

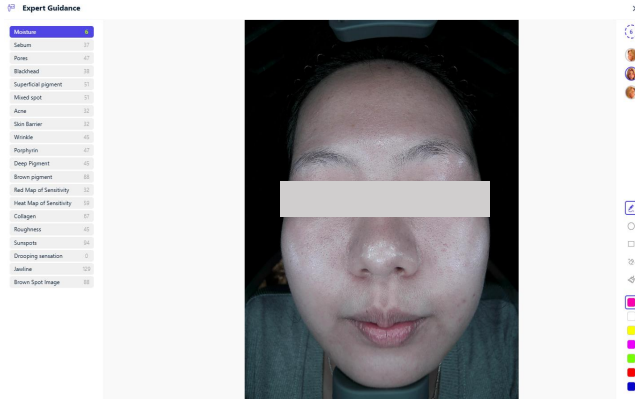
Program recommendation

The normal PH value of facial skin is concentrated between 4.5 and 6.5
 Skin properties: divided into dry skin, oily skin, normal skin, combination skin, and sensitive skin

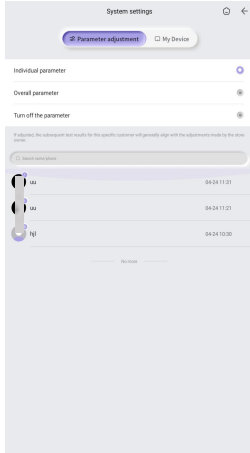


H5 Mobile phone report

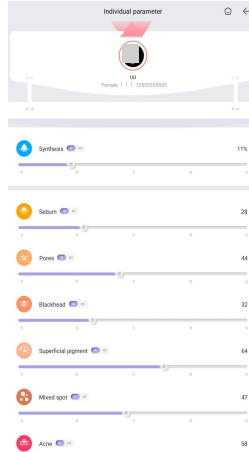
Three reporting modes - comprehensive analysis report 3



Parameter adjustment



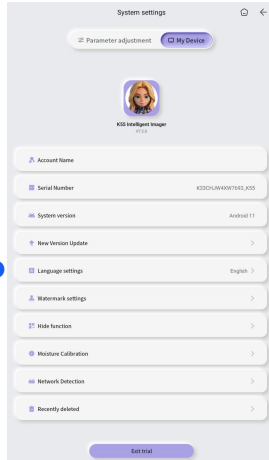
Parameter adjustment



Data result optimization manual debugging

It can be adjusted as a whole

My device



The language
can be adjusted

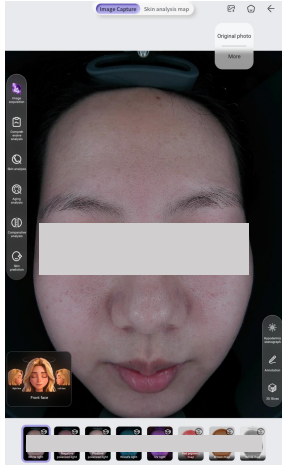
Serial number

You can find the instrument problem
through the background and solve it.

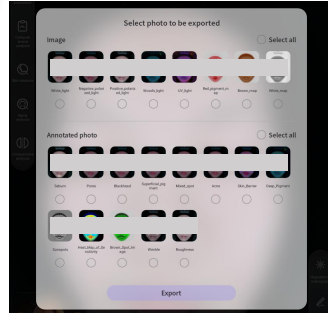
Hide function

You can turn on or off the skin prediction
and skin age functions by yourself.

Image export function



Export image



Multi image export

Data center

Statistics

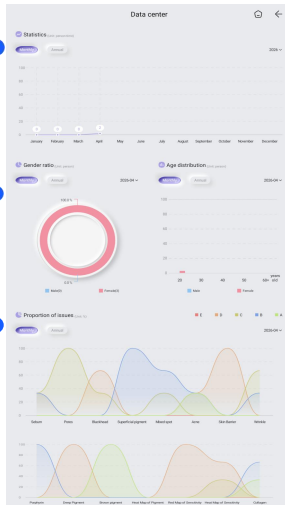
The number of people entering the store in a month or a year can be displayed more intuitively through the line chart

Gender ratio

He men and women who enter the store can see the ratio of male and female women who enter the store through the data form more clearly and intuitively

Proportion of issues

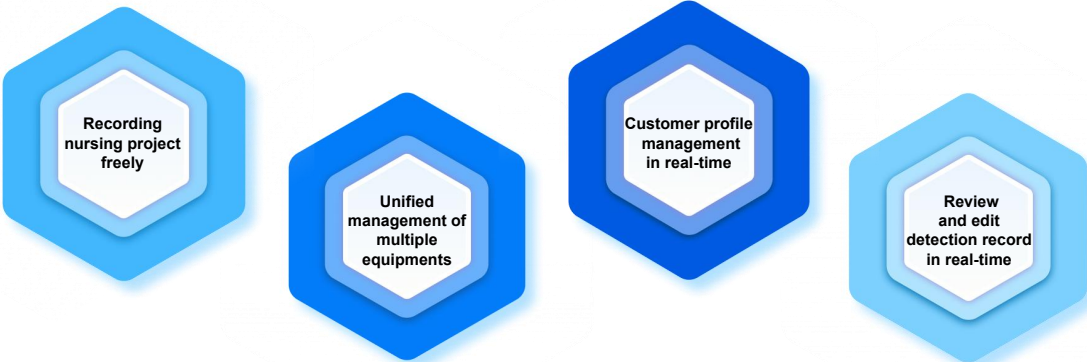
In the form of data, the current population is divided into five levels with different colors to represent the data in each indicator



Age distribution

Through the age division of the number of people entering the store in the form of data.

Backend management



Recording
nursing project
freely

Unified
management of
multiple
equipments

Customer profile
management
in real-time

Review
and edit
detection record
in real-time



K55 AI Skin analyzer

04

HARDWARE
SPECIFICAT
IONS

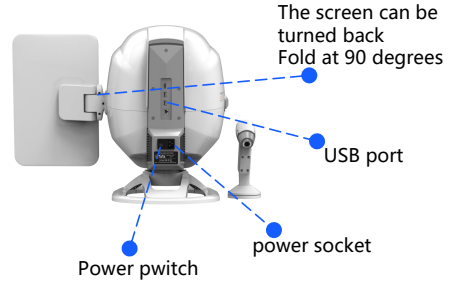
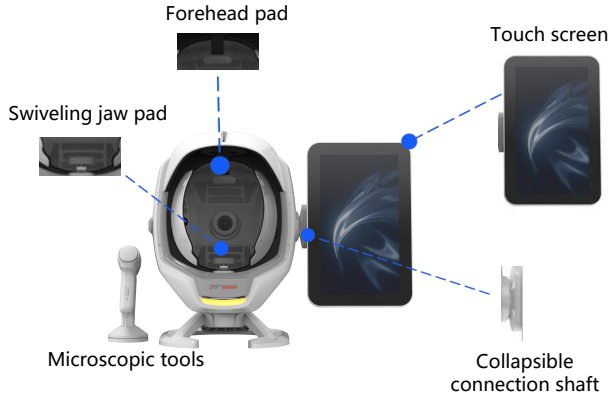
Parameters

Parameter information

K55

Type number	K55
Image element	Industrial grade 36 million
Light spectrum	White light, positive polarization, negative polarization, Wu, UV, erythroid, brown, white
Shading mode	Semi-open
Product material	Industrial grade ABS
Electric source	AC100-280V/50/60Hz
Product size	637 x 433 x 520mm (after folding: 424 x 433 x 520mm)
Central processing unit	The RK3568 quad-core Cortex-A55 has a maximum frequency of 2.0GHz
Main plate	R10-S8810 motherboard with Android11 system
Internal memory	Dual channel LP DD R4, 4G
Hard disk	MMCS_1, 32G
Mode of operation	Multipoint capacitive touch
Screen feature	It folds 90 degrees
WIFI	Built-in dual-band WIFI(2.4G, 5G)
HDMI	1 Pcs
USB	3 Pcs
Screen scale	16:9
Screen size	15.6 inches
Screen pixel	1920 * 1080
Net weight of instrument	10.5 KG
Packing weight	15.9 KG
Box size	600 * 575 * 635 mm
Packaging material	Corrugated paper + pearl cotton
Other accessories	Palm-Sized Microscopic imager, power cord

Hardware parameters



Display of product patents, testing reports, and certification certificates



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