

Bitmoji[®] 摩玑

LEAD TECHNOLOGY CREATE BEAUTY

A5 AI Intelligent Imager

A5 AI Intelligent Imager: With a research and development focus on solving skin problems, it integrates eight spectral imaging technologies and can professionally and objectively analyze seventeen problems of facial skin with flexible operations. The original intention of the research and development is to take photos and analyze reports with just one click, making it more convenient to operate.



Supports 19 languages



Traditional Chinese



English



French



German



Japanese



Korean



Spanish



Portuguese



Italian



Russian



Dansk



Dutch



Polish



Turkish



Arabic



Tiếng Việt



Indonesian



Thai

Adapt to the scene



Catalogue

01

FUNCTION
DEMO

02

PARAMETERS

03

EIGHT
SPECTRAL
IMAGE
ANALYSIS

04

17 ITEMS
INDICATORS

05

OUR
SERVICE

06

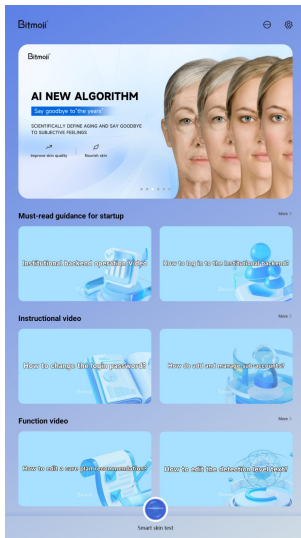
BRAND
COOPERATION
ORGANIZATION



A5 Intelligent Imager

01

FUNCTION
DEMO



Click on the setting to adjust the parametersters

Banner

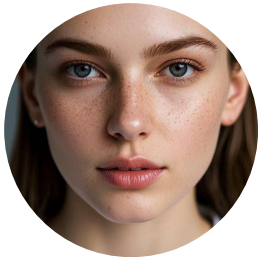
Must-read guidance for startup

Instructional video

Function video

Analysis of 4 major symptoms

30+ detection dimensions



Analysis of aging



Forehead lines



Dorsal nasal lines



Lines around the eyes



Crow's feet



Nasolabial folds

Sensitive analysis



Acne



Redness



Acne rosacea



Barrier

Pigment analysis



Mole



Freckles



Acne marks



Spots

Skin quality analysis



Pores



Porphyrin

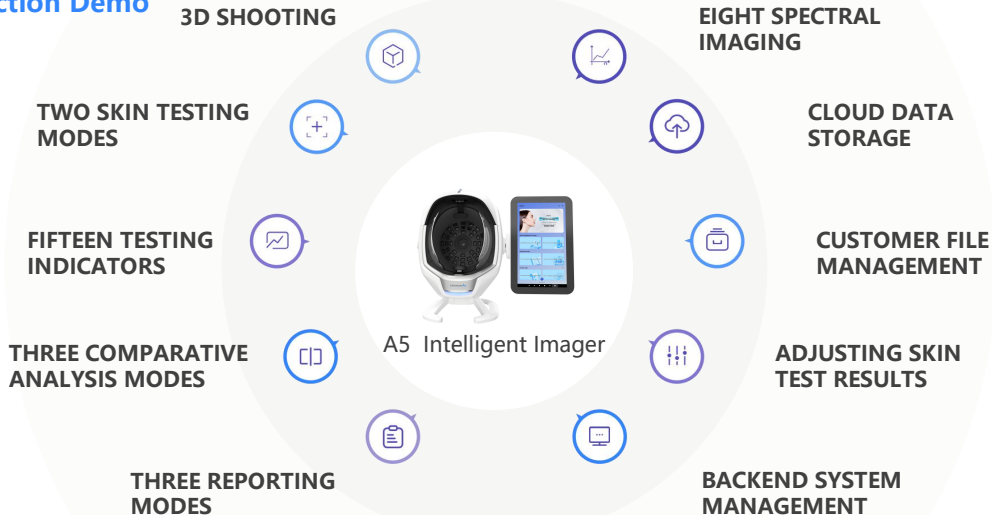


Wrinkle



Moisture

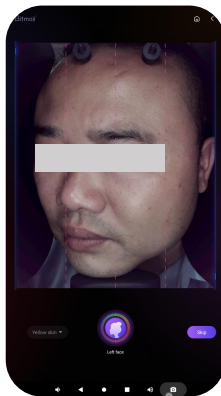
Function Demo



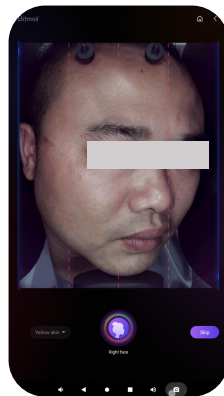
3D SHOOTING



Front face

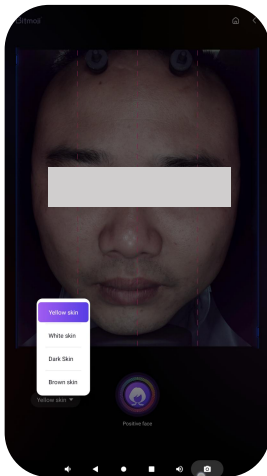


left face



Right face

Four skin tones available



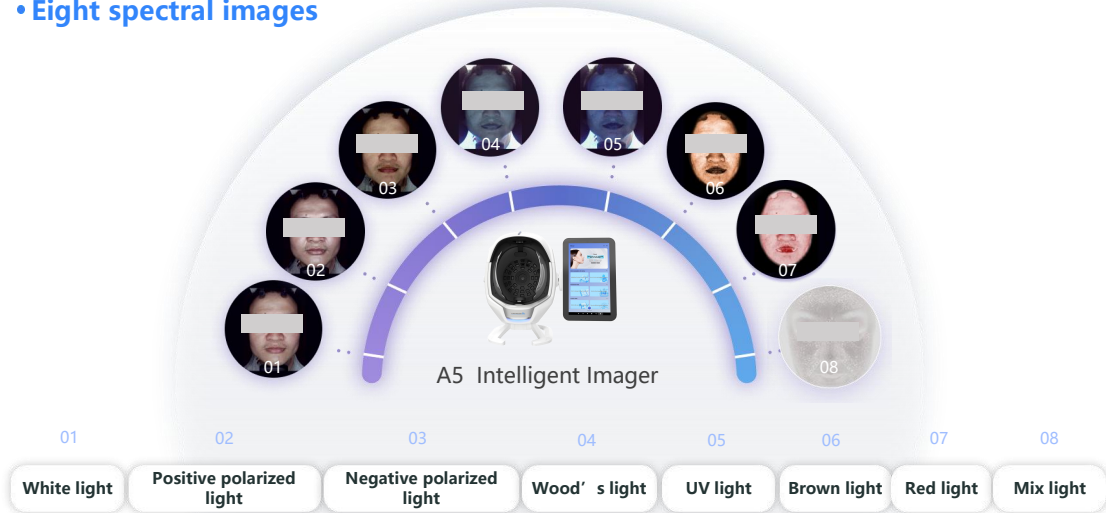
Yellow Skin

White skin

Dark skin

Brown skin

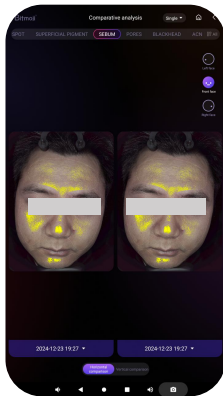
- Eight spectral images



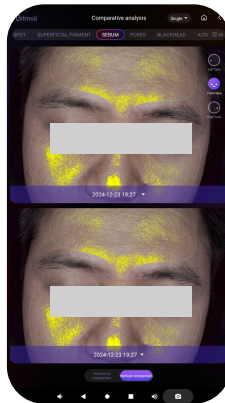
seventeen testing indicators



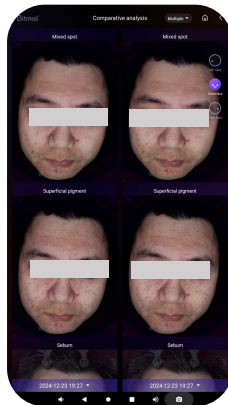
Three comparison modes



Parallel comparison

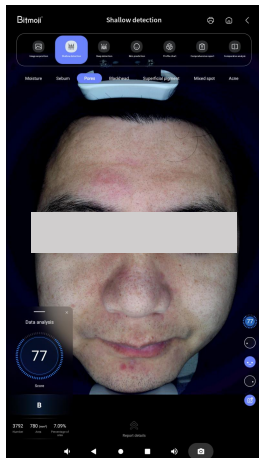


Vertical comparison



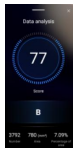
Multinomial contrast

Single independent reporting



Introduction to data analysis

Data score



Multidimensional perspective

Multi-angle comprehensive image display

- 1.Score
- 2.Level
- 3.Number
- 4.Area
- 5.Percentage of area

Let consumers accurately understand their skin problems

Accurately quantify the underlying effect and empower doctors to treat

It is divided into 5 levels according to the skin condition from high to low and marked with different colours.

A Green B Blue C Yellow D Orange E Red



E



D



C

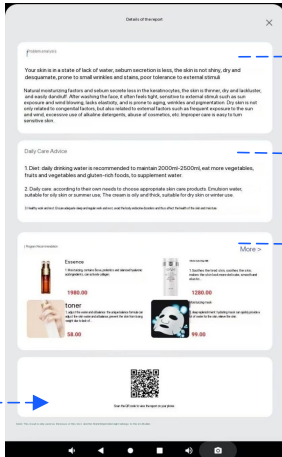
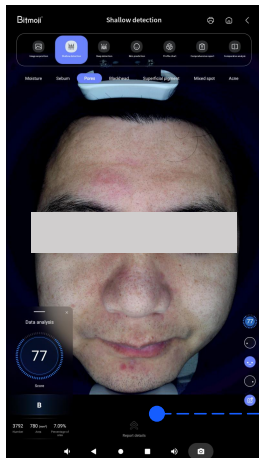


B



A

Three reporting modes-Single independent report



Problem analysis

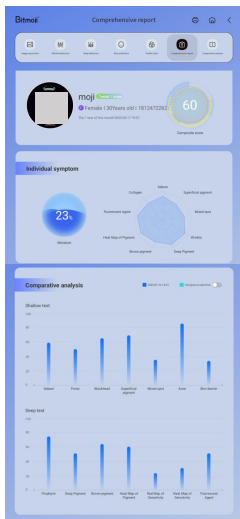
Nursing advice

Scheme recommendation



Slide the arrow up to a pop-up window of a single report.

Three reporting modes-Comprehensive analysis report



Personal information and comprehensive score

On the left is the skin water content and on the right is a single report.

Single indicators below C will be realised in the form of radar charts.

Comparative analysis, only compare and analyse with the results of the last shooting.

Shallow test

Deep test

Three reporting modes-Comprehensive analysis report



Single report

For the text report of a single test item (problem analysis and daily care advice), the system will update in real time according to the level score in the state at that time with five different scoring levels.



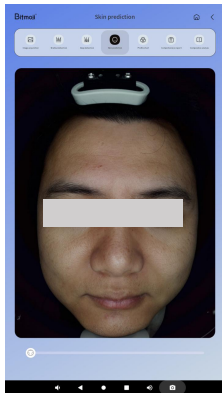
H5 Mobile phone report



Download the report

Scan the code on your mobile phone to get the report

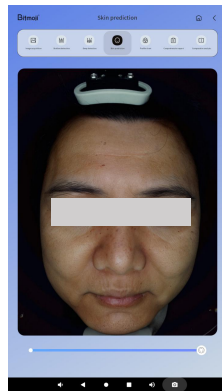
Skin prediction



Skin prediction

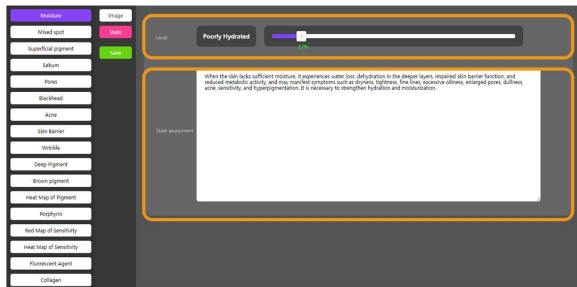
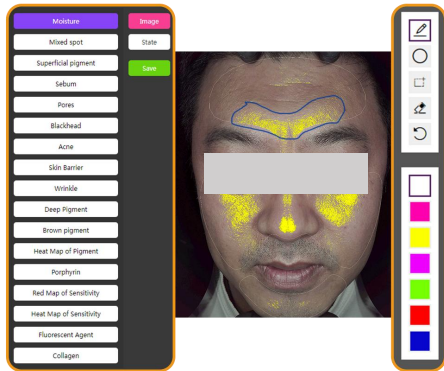
Deeply predict the future of the skin and awaken customers' desire for young skin.

According to the customer's current skin condition, AI algorithm is used to simulate the ageing situation of different ages to realise the prediction of skin ageing.



Skin prediction

3 Innovative self-editing reports



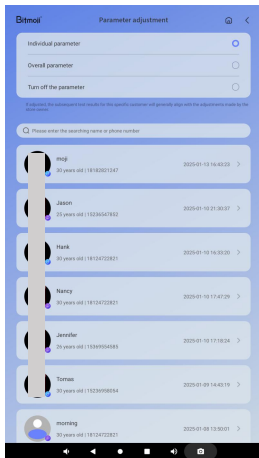
The background automatically selects the image to be edited for annotation

Customize any test results you want

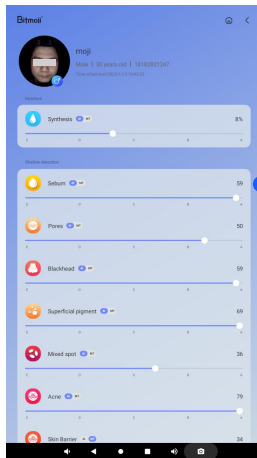
You can debug results for each indicator

Free copy editing

Manual optimization of detection projects



Parameter adjustment

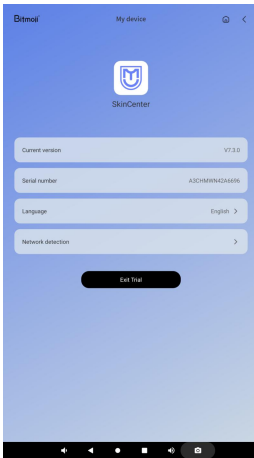


Data result optimization manual debugging

It can be adjusted as a whole

Hidden detectionproject settings

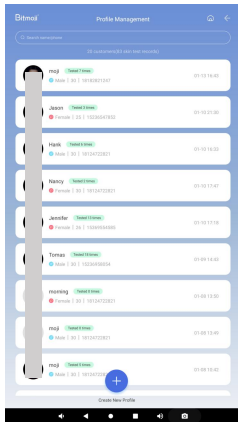
The language
can be adjusted



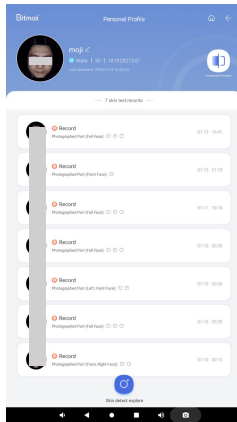
Serial number

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

Cloud storage file management



File Management



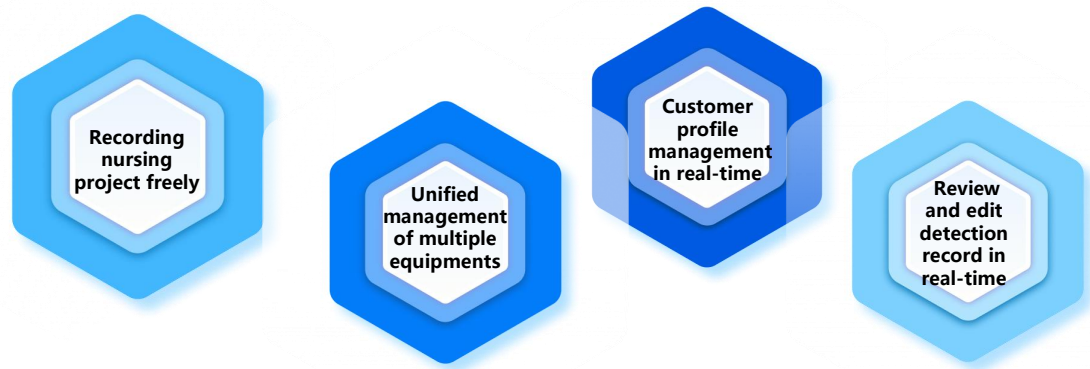
Profile

Cloud Storage

One click search

Number of skin
tests

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**



A5 AI INTELLIGENT IMAGER

02

PARAMETERS

Device Name	A5-AI intelligent skin tester
Model	ZMLH-A5
Pixel	36 million (Industrial-grade)
Spectrum	RGB white light, positively polarized light, negatively polarized light, Wu's light, UV light, red light, brown light, and mixed light
Light shielding mode	mode: semi-open
Materials	ABS (Industrial grade)
Power supply	AC 100-260V, 50/60Hz
Dimension	433x637x520mm (folded: 433 X 424x520mm)
Central processing unit	Rockchip RK3568, quad-core Cortex-A55, with a maximum clock speed of 2.0GHz
Motherboard	R10-S6810, equipped with Android 11 system
Memory	Dual-channel LP DD R4, 4G
Hard drive	MMC 5.1, 32G
Operation	Capacitive multi-touch touchscreen
Screen feature	90-degree foldable
WIFI	Built-in dual-band WIFI (2.4G, 5GB)
HDMI	1 Pcs
USB	2 Pcs
Screen ratio	16:9
Screen size	15.6 inches
Screen pixels	1920*1080
Device net weight	11.5 KG
Packing weight	17.8 KG
Packaging box size	600 x 580 x 640mm
Packaging material	corrugated paper + EPE
Other accessories	power cord

Hardware parameters



A5 AI INTELLIGENT IMAGER

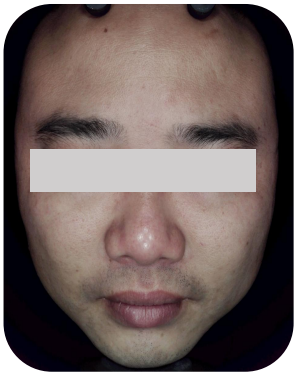


A5 AI INTELLIGENT IMAGER

03

EIGHT
SPECTRAL
IMAGE
ANALYSIS

Eight spectral image analysis



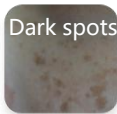
White light

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

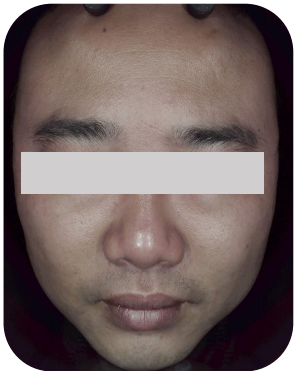


Wrinkle



Pore

Eight spectral image analysis



**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).



Wrinkle



Pore

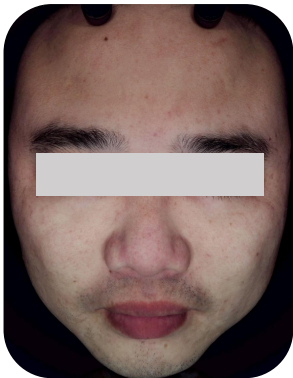


Acne scars



Acne

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



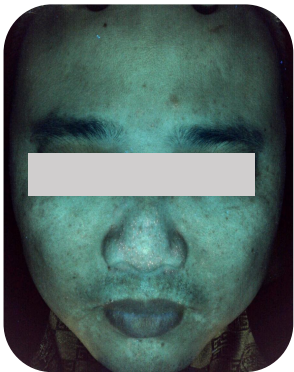
Pigment



Acne



Eight spectral image analysis



Wood' s light

THEORY

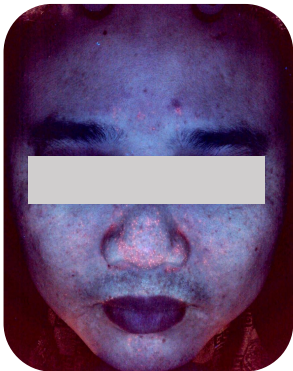
Wood' s light can detect deep pigments in dermis. The principle behind this is that melanin does not fluoresce after exposure to ultraviolet radiation, allowing melanin to stand out more clearly with stronger contrast.

Spots

Spots

Fluorescence

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.



Porphyrin



Fluorescence

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.



Eight spectral image analysis

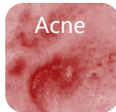


Red light

THEORY

Used to analyze subcutaneous hemoglobin and inflammatory pigment deposition on the face, such as sensitivity, skin lesions, acne, erythema, etc. .

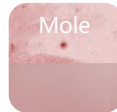
Acne



Blood
streak



Mole



Eight spectral image analysis



Mixed light

THEORY

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

Rough
texture

Wrinkle



A5 AI Intelligent Skin Tester
A5 AI INTELLIGENT SKIN TEST

04

17 Items
Indicators

19 Detection function-Moisture Test Report 1

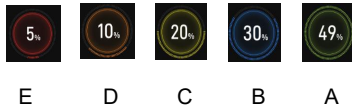


Zoned moisture detection

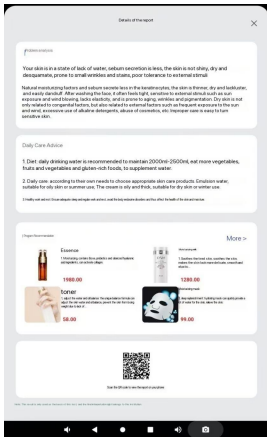
Partition detection of skin and facial moisture

Skin water content score

The water content of the skin is sorted from high to low according to five levels and marked with color.



19 Detection function-Moisture Test Report 2

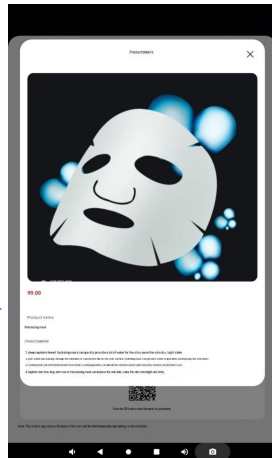


Problem analysis

Nursing advice

Scheme recommendation

Scan the code to view the report



100

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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100

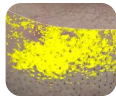
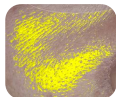
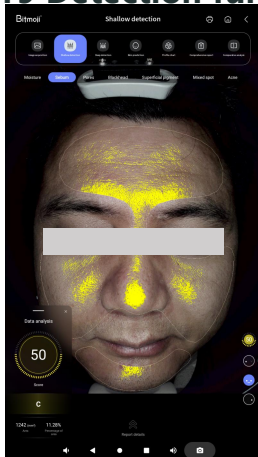
100

[illegible]

100

[illegible][illegible]

19 Detection function

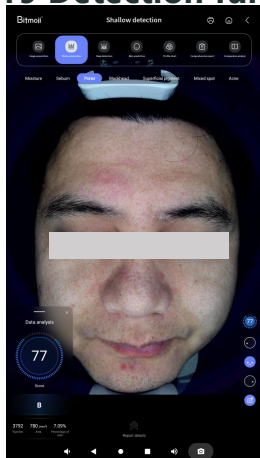


Sebum/Oil

Image Analysis

- ❑ The oil secretion of the skin surface can be checked under positive polarized light source.
- ❑ The algorithm displays areas of the skin with active oil secretion through yellow fluorescence, Through the form of data, you can see the oiliness of facial skin more clearly and intuitively.
- ❑ Excess oil is one of the factors that trigger acne growth, so please take good oil control care if you have acne.

19 Detection function

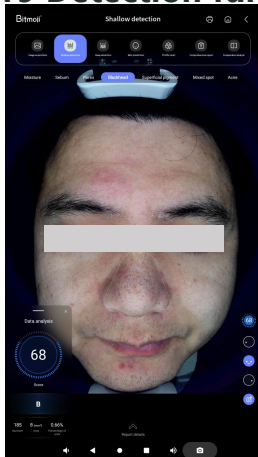


Pores

Image Analysis

- ❑ Under negative polarized light source, it is possible to check if enlarged pores have formed on the skin surface.
- ❑ The algorithm uses RBX technology to display areas with enlarged pores in the skin by deepening the color of the pores; The pores in the facial skin can be seen more clearly and intuitively through the form of data.
- ❑ Pore clogging refers to the pores on the surface of the skin being blocked, which prevents sebum from being discharged normally, accompanied by the accumulation of stratum corneum and dirt. This phenomenon usually manifests itself in the form of blackheads, whiteheads or acne, and in severe cases may lead to skin problems such as acne and folliculitis.

19 Detection function



Blackheads

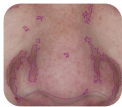
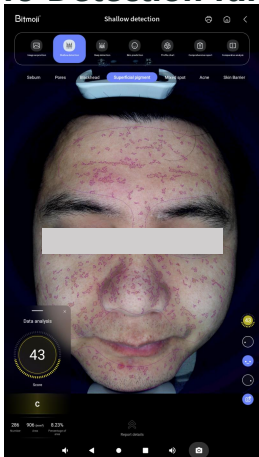


Image Analysis



- ❑ Under negative polarized light source, you can see blackheads formed by pores clogged by oil in the T-zone.
- ❑ The algorithm uses RBX technology to highlight the blackheads in the T-zone by deepening their color; The blackheads of the nose can be seen more clearly and intuitively through the data.
- ❑ Blackheads are formed by excess oil accumulation in the nose area of the skin and air oxidation. Areas with large pores are more likely to accumulate and store oil and dust in the air, so it is necessary to clean and moisturize in time to reduce the formation of large pores.

19 Detection function

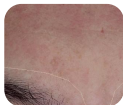
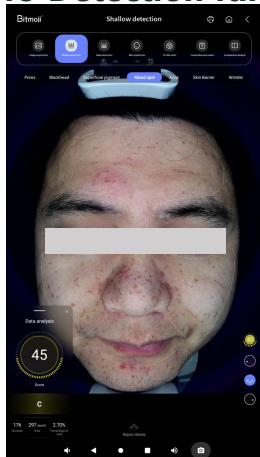


Superficial Pigment

Image Analysis

- ❑ Superficial pigmentation refers to pigmentation that has formed on the superficial layer of the skin, including: acne scars, spots, inflammatory pigmentation, etc.
- ❑ The coverage of pigmentation may exist in both deep and shallow layers. You can compare the image with the deep pigment image. If the shallow layer shows pigmentation but the deep layer shows no pigmentation, it means that the pigment is only deposited in the superficial layer of the skin.
- ❑ The algorithm marks the pigmented area with a purple polygon curve, and the shallow pigment can be seen more clearly and intuitively through the form of data.

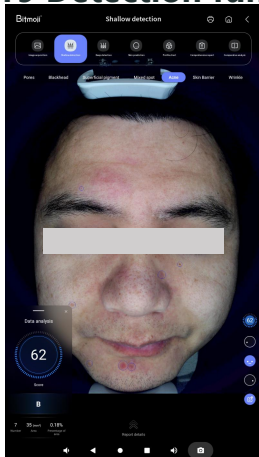
19 Detection function



Mixed Spots Image Analysis

- ❑ Under negative polarized light, we can see the distribution of mixed spots on the skin surface. The algorithm identifies the facial complex spot area and marks it with a brown block.
- ❑ The mixed spot map shows skin pigmentation such as melasma, age spots, and freckles. Melasma is a darker patch on the skin that can appear brown, black, or dark brown. Melasma may expand over time, especially if daily sun protection and skin care are not taken care of. Some melasma may be slightly raised and feel slightly convex to the touch.
- ❑ The algorithm marks the mixed spot area with brown color blocks, and the mixed spot situation can be seen more clearly and intuitively through the form of data.

19 Detection function

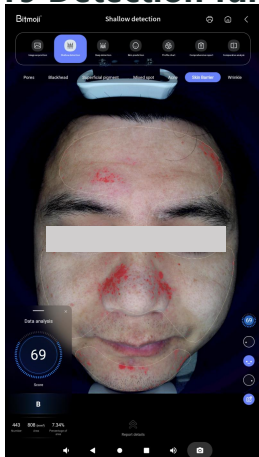


Acne

Image Analysis

- ❑ Look at the distribution of skin acne and superficial redness under negative polarized light.
- ❑ When pores are clogged with oil and dust, it is easy to fester or form inflammation, which will then turn into acne and acne.
- ❑ The algorithm identifies the distribution area of facial acne and marks it with blue circles. The more the number and the more obvious the redness of the skin, the more serious the skin acne problem is, and the skin needs to be oil-controlled to unclog the pores and eliminate inflammation. You can see the acne situation more clearly and intuitively through the form of data.

19 Detection function

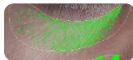
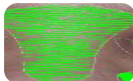
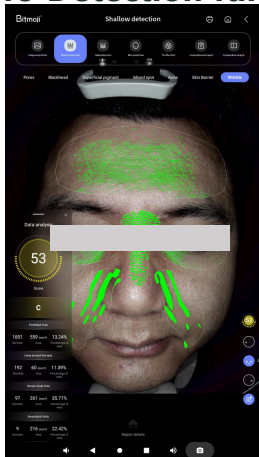


The Barrier

Image Analysis

- ❑ We can check the skin barrier health under negative polarized light source.
- ❑ The barrier image shows the skin redness problem and the distribution of red blood streaks. The formation of red blood streaks is mainly due to the damage of keratin, the weakness of the epidermis, and the long-term damage of the capillary position, which leads to vascular dilation and congestion.
- ❑ The red area indicates that the skin barrier is damaged, which can be used as a reference for judging the skin sensitivity and inflammation area. The damage to the barrier can be seen more clearly and intuitively through the form of data.

19 Detection function

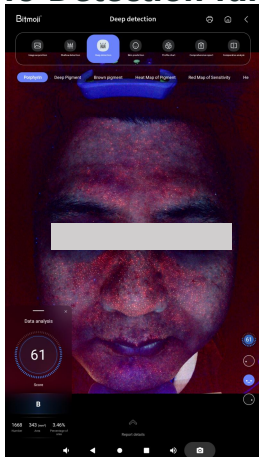


Wrinkle

Image Analysis

- ❑ The texture of the skin surface can be viewed under a positive polarized light source.
- ❑ The wrinkle image shows the roughness of the skin texture, such as large pores, dry lines, fine lines, and wrinkles. It can be used as a reference for judging the fineness of the skin and the loss of collagen.
- ❑ The algorithm identifies the lines of the facial skin and marks the distribution of the five parts of the skin wrinkles (head-up lines, nose-back lines, peri-eye lines, crow's tail lines, decree lines) with a green short line. The more intermittent lines, the rougher the skin. You can see the wrinkles more clearly and intuitively through the form of data.

19 Detection function



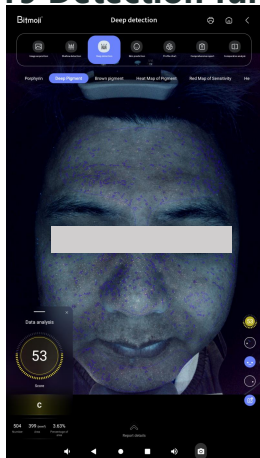
Porphyrin



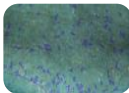
Image Analysis

- ❑ The brick-red fluorescent spots in the picture are Propionibacterium acnes and Malassezia. These two bacteria will aggravate the occurrence of skin acne, so they can be used as a basis for judging skin acne. Through the form of data, the situation of porin can be seen more clearly and intuitively.
- ❑ The living environment of Propionibacterium acnes and Malassezia must have oil, so they can be used as a basis for judging the accumulation of oil in skin pores.

19 Detection function



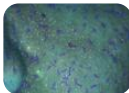
Deep Pigment Image Analysis



❑ The green color of the whole face in the picture is Wood's light, and the color is not analyzed for problems.



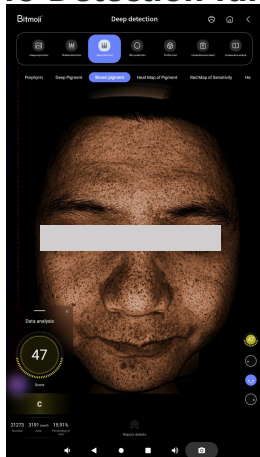
❑ The purple area is the facial comprehensive spot area identified by the algorithm and marked with a polygonal curve. Through the form of data, the situation of deep pigments can be seen more clearly and intuitively.



❑ The dark (black, brown) block or dot skin that appears on the face is a display of skin pigmentation (such as: melasma, freckles, malar spots, inflammatory pigmentation, acne marks, hemoglobin aggregation, etc.).

❑ The pigmentation in the deep layer of the skin can be compared with the sensitivity to determine whether it is an inflammatory hemoglobin accumulation or a spot problem.

19 Detection function

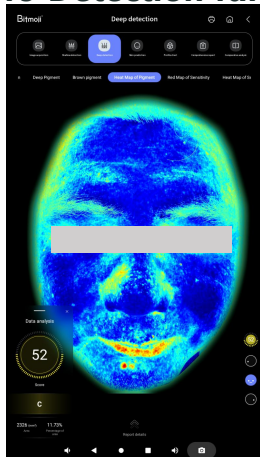


Brown Pigment

Image Analysis

- ❑ The depth of the overall brown color of the skin is mainly related to the skin color. People with darker skin or more hemoglobin have darker overall pigmentation.
- ❑ The areas with heavier pigmentation in the image are mostly those with higher pigment concentration density.
- ❑ Through the form of data, the brown pigment can be seen more clearly and intuitively.

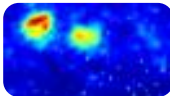
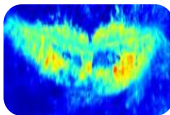
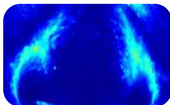
19 Detection function



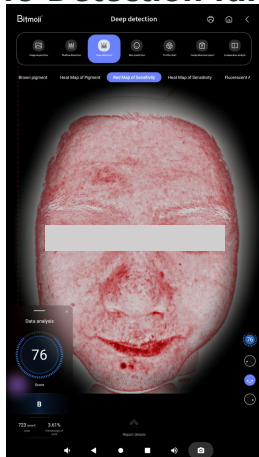
Pigment heat map

As shown in these images

- ❑ Pigment heat map can check the distribution of pigment deep in the skin.
- ❑ The algorithm identifies the distribution of pigments on the face and presents it in the form of a heat map. Different colors are used to represent the distribution of spots, moles, and scars visible to the naked eye under negative polarized light. Red indicates severe skin pigmentation, yellow for medium, green for lighter skin, and blue for normal skin.
- ❑ Pigment production mechanism: The body's own regulation, physical or chemical factors stimulate melanocytes, increasing their number and enhancing their activity. The melanin produced cannot be completely excreted with the stratum corneum and blood circulation, and eventually deposits in the local skin.

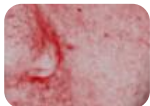
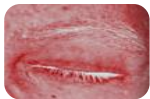


19 Detection function



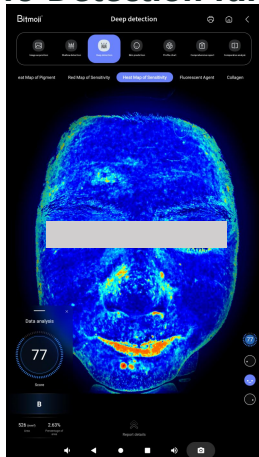
Sensitive red pigment map

As shown in these images



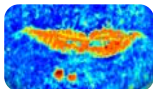
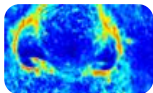
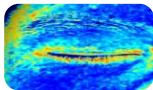
- ❑ Under negative polarized light source, we can check the redness of the superficial layer of the skin and the distribution of red blood vessels.
- ❑ Clear distribution of red blood vessels in polarized light indicates that the skin has thin cuticle and is sensitive, requiring proper protection and care.
- ❑ The depth of the hemoglobin base color is related to the overall skin color. People with less hemoglobin will have a lighter color.
- ❑ Areas with more concentrated red represent areas where skin hemoglobin accumulation is more concentrated, which can be used as a reference for judging skin sensitivity and inflammation areas. Through the form of data, you can see the degree of skin sensitivity more clearly and intuitively.

19 Detection function



Sensitive heatmap

As shown in these images



- ❑ The "sensitive heatmap" represents skin sensitivity. When the skin shows significant redness and thinning of the stratum corneum, it becomes more susceptible to external stimuli and damage, leading to issues such as dryness, sensitivity, and redness.
- ❑ The sensitive heatmap is based on the distribution of subcutaneous capillaries, with areas of greater sensitivity having more capillaries. Visible redness and acne on negative polarized light images indicate areas of severe sensitivity.
- ❑ The algorithm uses different colors to indicate varying degrees of sensitivity and their distribution on the skin. Areas with severe sensitivity are shown in deep red, including the lips; medium sensitivity is represented in yellow, mild sensitivity in green, and normal skin appears in blue. The sensitivity is more clearly and intuitively reflected in the form of data.

19 Detection function



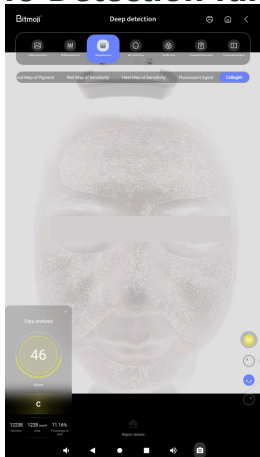
Fluorescent dye

As shown in these images



- ❑ Fluorescent dyes and pigments might both appear in facial imaging. To assess the fluorescent dye, focus specifically on the fluorescence response.
- ❑ The difference between fluorescent dyes and porphyrins is as follows: Porphyrins exhibit brick-red fluorescent spots, while fluorescent dyes display intense blue light and usually appear as large, sheet-like areas.
- ❑ The difference between fluorescent dyes and facial dust is as follows: Facial dust appears as white, bright, floating, and short, wispy lines on the surface, while fluorescent dyes typically display bright colors and are often more diffuse or spread over larger areas.

19 Detection function

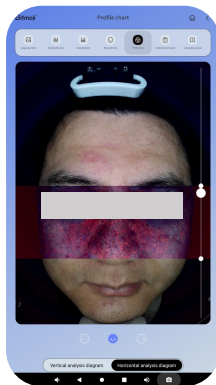
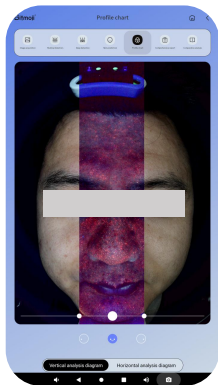


Collagen

As shown in these images

- ❑ Under polarized light, we can assess the loss of collagen on the skin's surface.
- ❑ Mixed light images reveal skin texture issues such as enlarged pores, dry lines, fine lines, and wrinkles. They serve as a reference for evaluating skin smoothness and collagen loss.
- ❑ In mixed light images, a higher number of discontinuous lines indicates rougher skin texture and more severe collagen loss. The sensitive process is more clearly and intuitively reflected in the form of data.

Profile chart



Profile chart

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

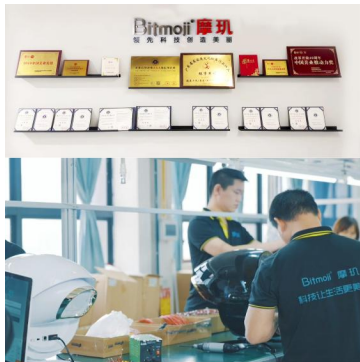


A5 AI INTELLIGENT IMAGER

05

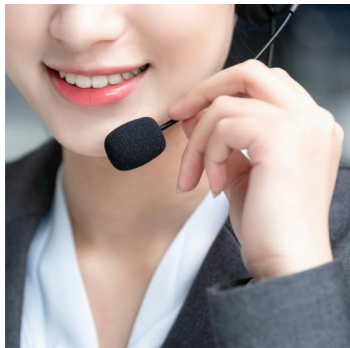
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AI intelligent skin tester
User manual

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Power cord	Unit	1	-	
Carrying case	Unit	1	-	
Software	Unit	1	-	
Documentation	Unit	1	-	

Please verify the quantity before purchase and confirm the product specifications are complete before testing the goods.

Model NO: ZMLH-A5





A5 AI INTELLIGENT IMAGER

06

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