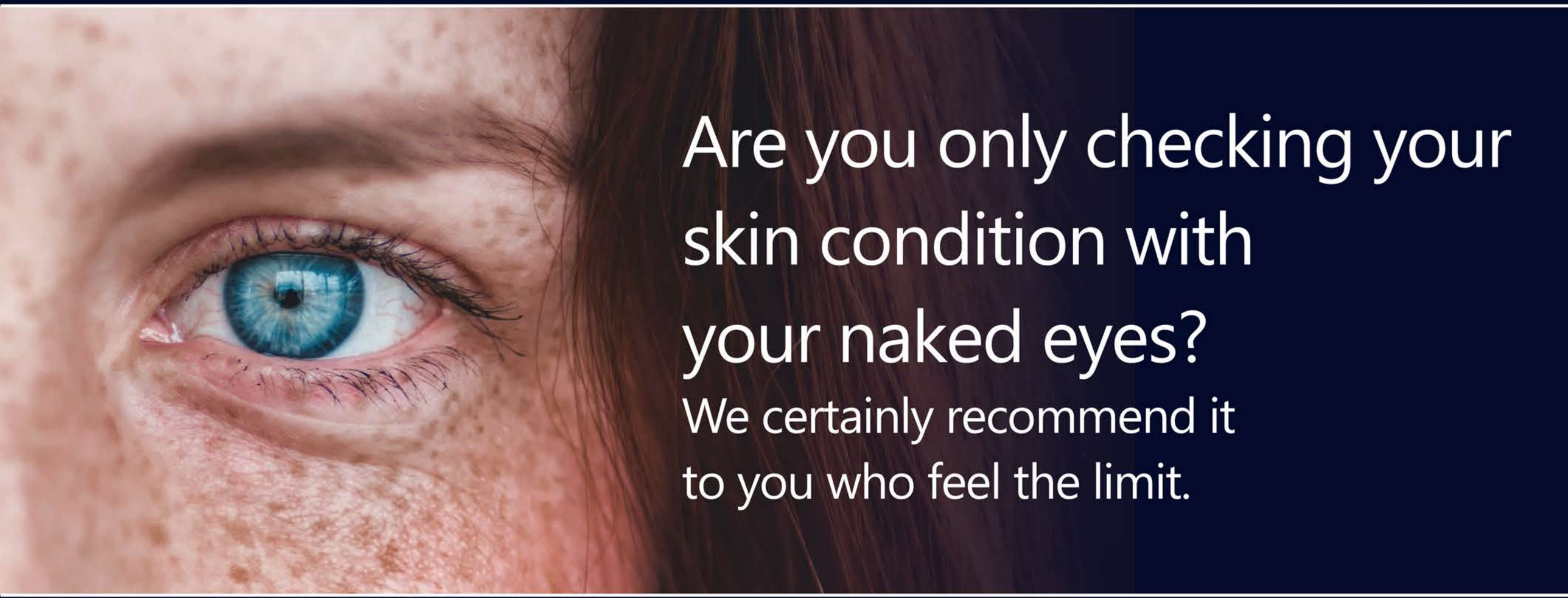
PIE

Focuskin

PROPOSAL

ENGLISH Ver. 00

www.pie.co.kr


Are you only checking your
skin condition with
your naked eyes?
We certainly recommend it
to you who feel the limit.

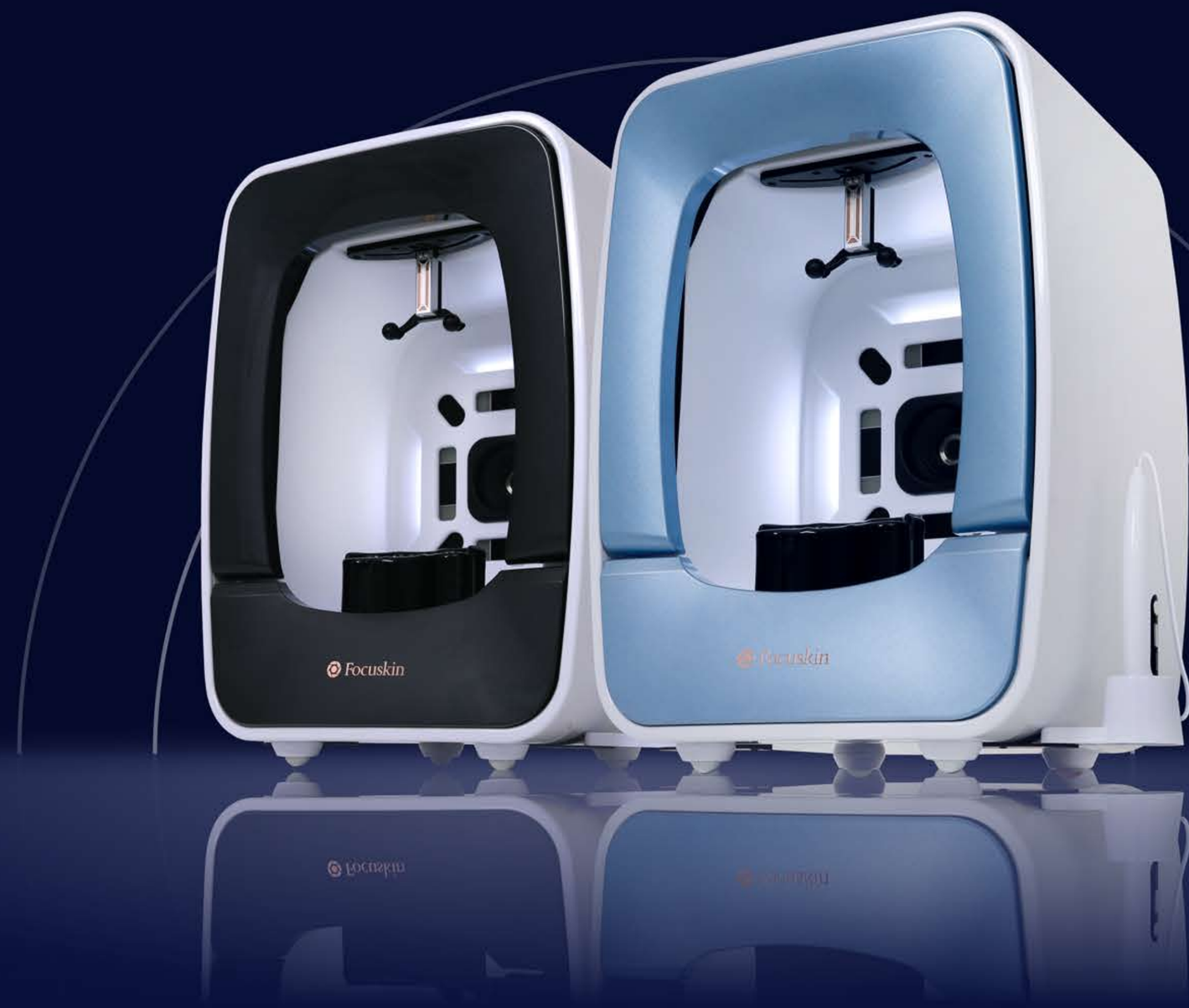
PIE

Change the perception of the entry-level skin diagnostic device.

~~Unreliable~~
Reliable analysis results

~~Low-resolution~~
High-resolution that even shows pores

~~Lower than~~
Same Algorithm with Advanced



Design space with new colors.

Aquamarine

Obsidian

Royal Gold

Upgrade Premium SunLike LED from Adaptive LED

Premium light source very close to sunlight reaching CRI 95-96

Safe shooting with constant sterilization

with a UV-A light source
to sterilize
the device's internal air

Content

1. Key Technologies
2. Skin Analysis
3. Use for business
4. Certifications and Patents
5. Product Specification

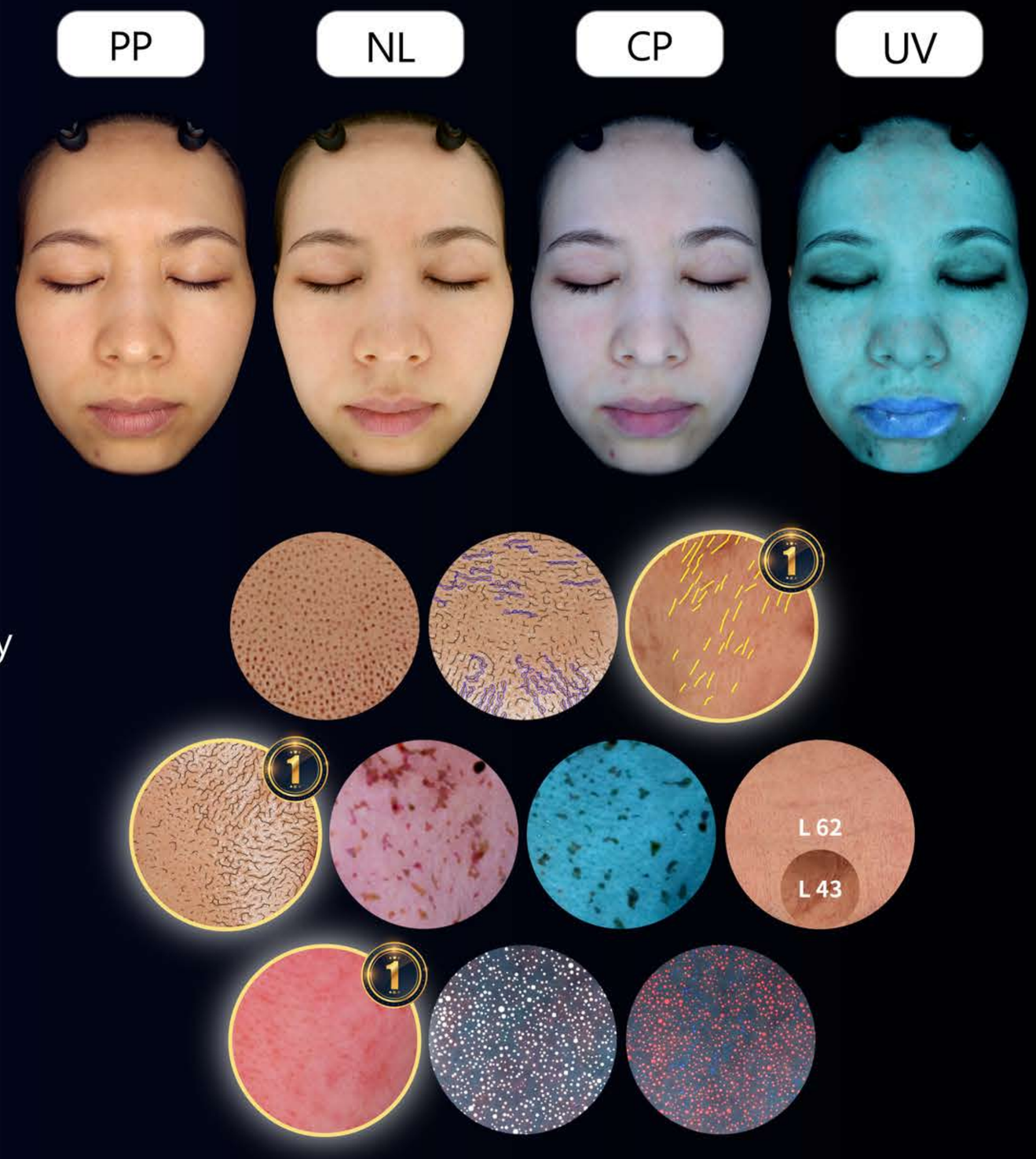
1

Key Technologies

PIE

Aphrodite AI

From patented skin texture analysis to elasticity measured by image, photos taken with four light sources are analyzed in 11 items.



II

SMART PIE

Faces are automatically recognized
with 70 coordinates, and the captured photos are
rotated to align with the previous analysis area.

III

3D VIEWER

Observe the skin texture
three-dimensionally and
derive effective counseling.

VI

BIG DATA & DEEP LEARNING

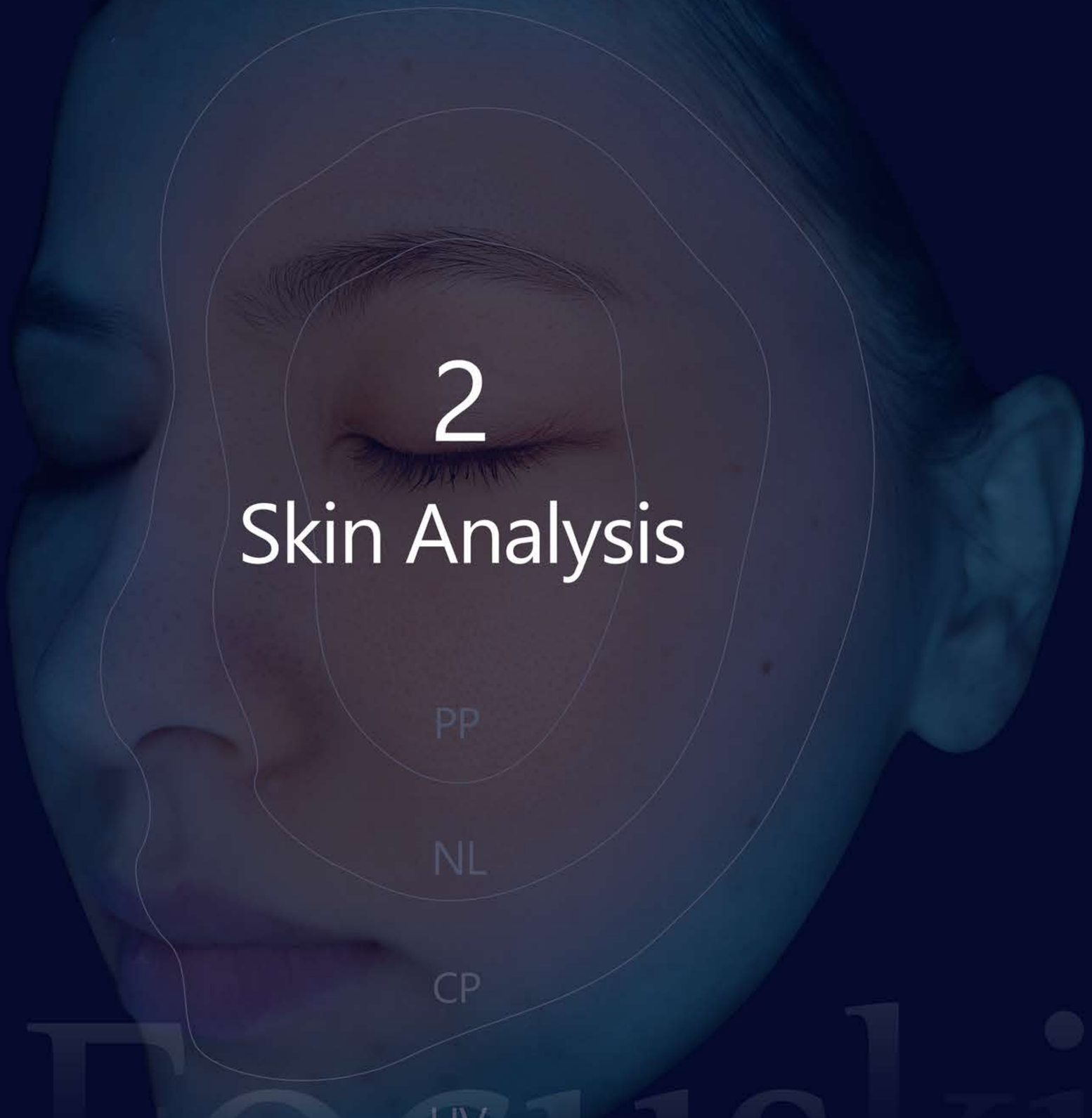
With more than 200,000 cases of skin data analyzed by region, the average value for each age group is updated through data fitting.

V

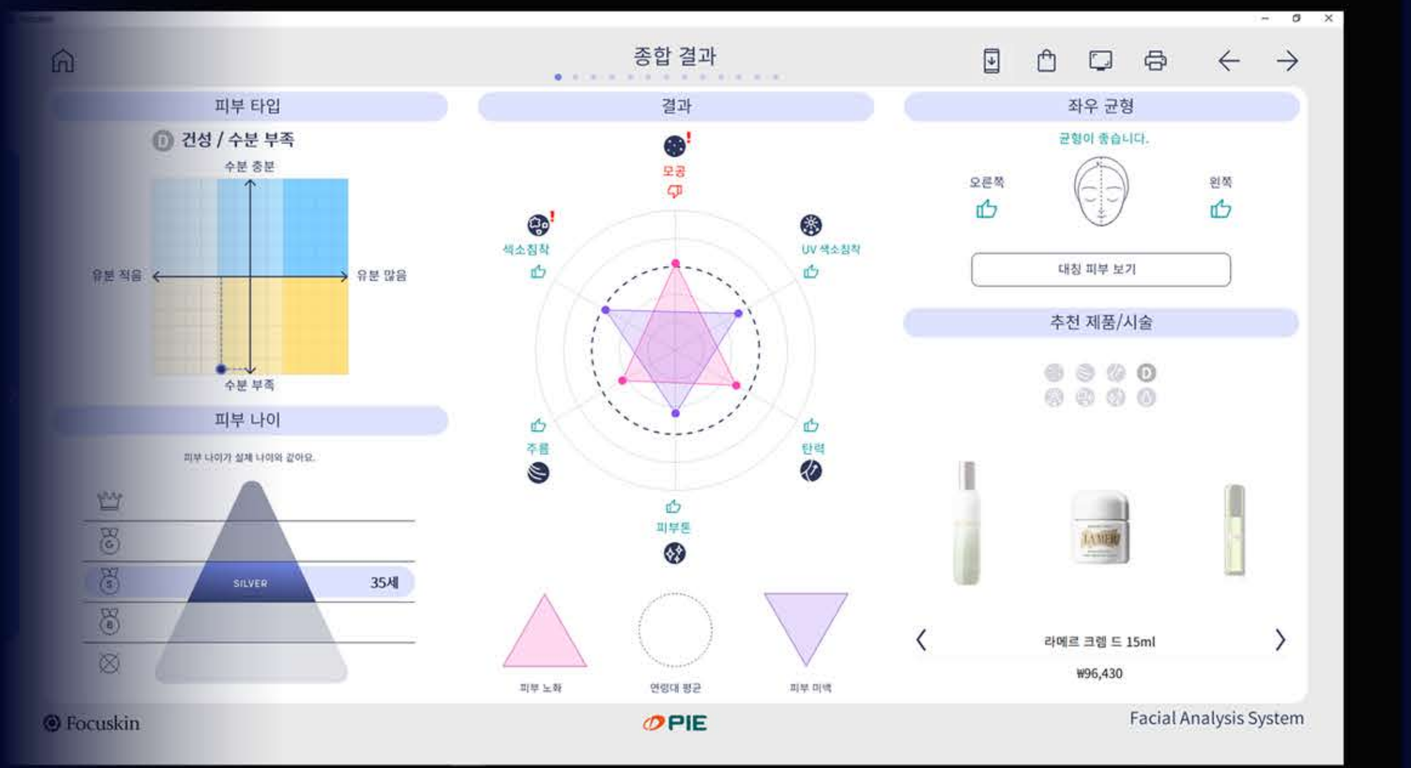
Maintain security & Automatic update

It is safe from viruses such as ransomware
by protecting data through encryption.
In addition, adding features and bugs are fixed
through automatic program updates at all times.

2
Skin Analysis



2 Skin Analysis



I

Intuitive UI composition

You can comprehensively organize
the analysis results and show your customers
at once and recommend
customized products to them.

2 Skin Analysis

=

First analysis items in industry

Patents have been registered for skin elasticity analysis, which measures the angle and number of vertical pores, and skin texture analysis, which measures skin texture in lines.

2 Skin Analysis

III

Skin detail analysis

We analyze the skin of the face in detail by area and compare it with the average age group.

We offer customized management.

2 Skin Analysis

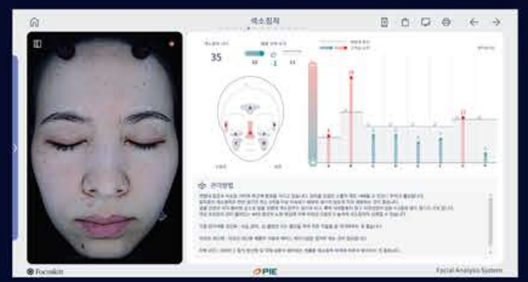
Total Result

Skin Type

Pore

Wrinkle

Elasticity



Spot

U.V Spot

Skin Tone

Redness

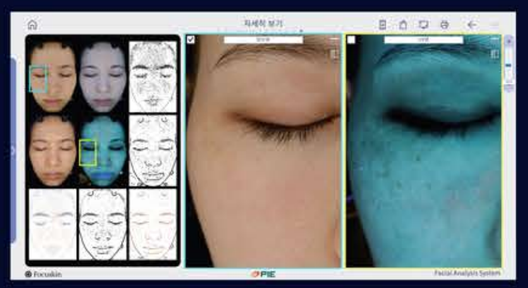
Glossy

Sebum

Porphyrin Ratio

Moisture

Personal Color

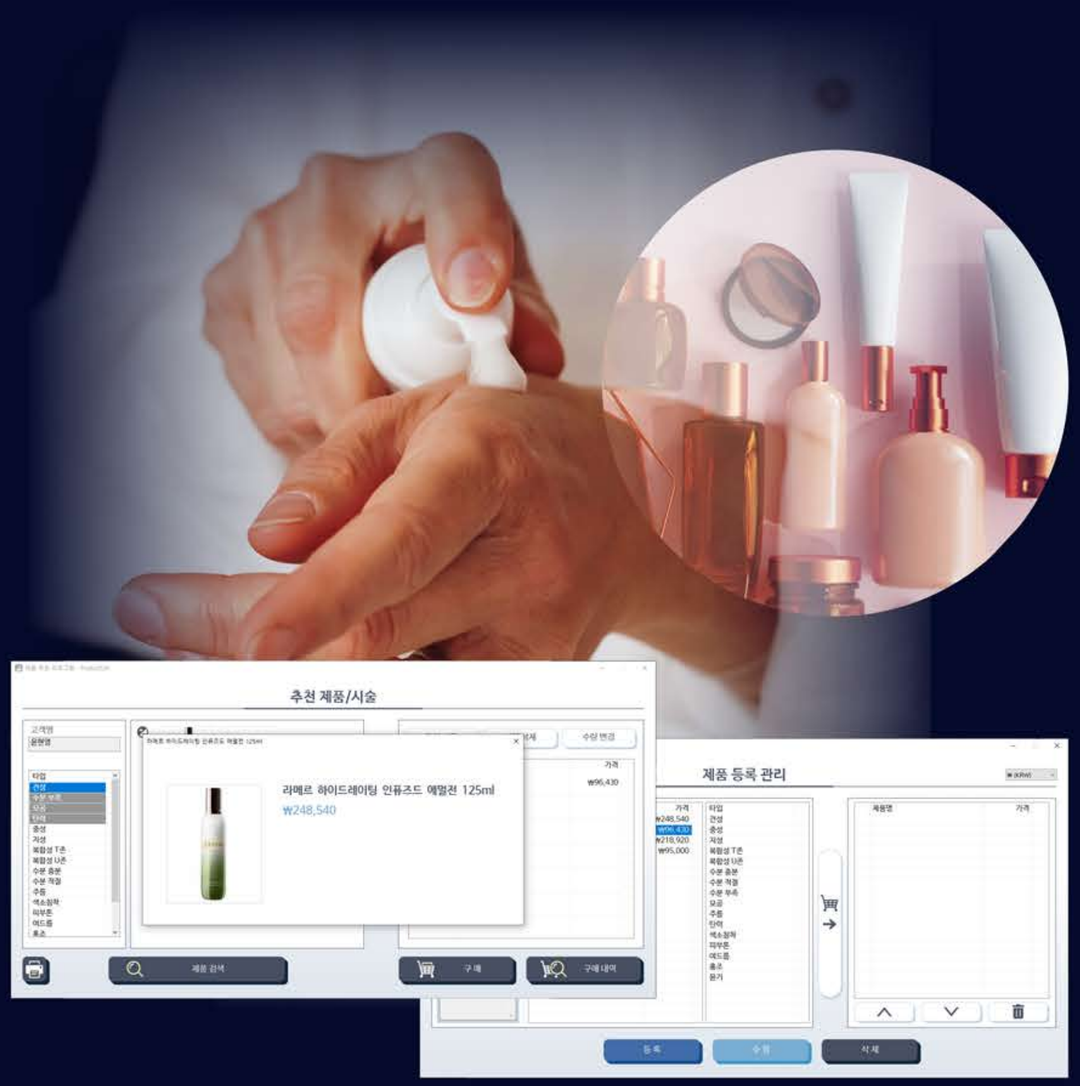


Detailed View

Total of
15 analysis items

3

Use for Business



I

Product Recommendation

We recommend products that suit your skin problems.

Classify categories with the product registration program and register by entering images, prices, etc.

3 Use for Business

II

Personal Color

It's very difficult to diagnose personal color.
Although diagnosis of personal color is not yet possible at FOCUSKIN,
we encourage your customers to be interested in personal colors.

III

Sharing Analysis Results

Skin analysis results can be downloaded via email, webpage link, or mobile application.

4

Certifications and Patents

4 Product Specification

EC Declaration of Conformity

EC Declaration of Conformity
According to
EMC Directive 2014/30/EU

For the following product:

Product Name	:	**Facial Analysis System**
Model Name	:	**Focuskin**
Variant Model Name	:	**Foom**
Applicant	:	**PIE Co.,Ltd**
Applicant's Address	:	**3F, 45 Changnyoung-daero, Paldal-gu, Suwon-si, Gyeonggi-do 16255**
Manufacturer	:	**Same as above**

We hereby declare that the product identified above meets the requirements of the EMC Directive 2014/30/EU, as laid out in the guideline set down by the member states of the EEC commission.

This declaration is valid for all samples that are part of this declaration, which are manufactured according to the production charts appendix.

CE

The following harmonized standards were applied in full in accordance to Article 6 of Directive 2014/30/EU:

EN 55032:2015
EN 55024:2010/A1:2015
EN 61000-4-2:2009
EN 61000-4-3:2006+A2:2010
EN 61000-4-4:2012
EN 61000-4-5:2014
EN 61000-4-6:2014
EN 61000-4-11:2014

PIE Co, Ltd
3F, 45 Changnyoung-daero, Paldal-gu, Suwon-si
Gyeonggi-do 16255

Date of issue: October 28, 2019

(Name and signature of authorized person)

TÜV NORD

Certificate
of conformity to the following
European Directives

Registered No.:
K12205/E19

Electromagnetic Compatibility Directive 2014/30/EU

Issued to applicant:	Date of issue(dd.mm.yyyy):	File reference:	Item tested by:	Date of test:
PIE Co., Ltd.	04.11.2019	KP-19-447	KOTEF/ETC	19.11.2019

This is to certify that the following products comply with the essential requirements (Annex 1) of the above mentioned European Directive and the following standard(s):

Product: Facial Analysis System

Type designation: Focuskin, Foom

Applicant: PIE Co., Ltd.
3F, 45 Changnyoung-daero, Paldal-gu, Suwon-si, Gyeonggi-do 16255, Korea

Manufacturer: Same as above

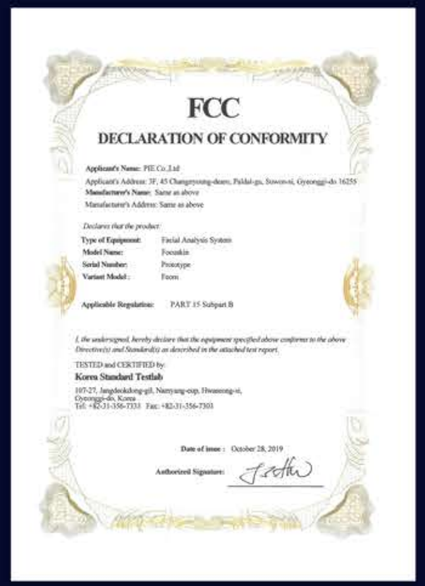
Standard(s): EN 55032:2012
EN 55024:2012
EN 61000-3-2:2014
EN 61000-3-3:2013

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD GROUP. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

Young-Cheon Kim
Product Certification Business Unit
TUV NORD KOREA Ltd.

TUV NORD Korea Ltd.
27 Digital-ro 9-gil, Guro-gu,
Seoul 08216, Korea
Tel.: +82-2-2106-0515
Fax.: +82-2-862-6995
E-mail: tic@tuv-nord.com

CE The CE marking can be affixed on the product if all relevant and effective Directives are complied with. CE



FCC
DECLARATION OF CONFORMITY

Applicant's Name: PIE Co.,Ltd
Applicant's Address: 3F, 45 Changnyoung-daero, Paldal-gu, Suwon-si, Gyeonggi-do 16255
Manufacturer's Name: Same as above
Manufacturer's Address: Same as above

Declares that the product:

Type of Equipment: Facial Analysis System
Model Name: Focuskin
Serial Number: Prototype
Variant Model : Foom

Applicable Regulation: PART 15 Subpart B

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s) as described in the attached test report.

TESTED and CERTIFIED by:
Korea Standard Testlab
107-27, Jangdeokdong-gil, Namyang-eup, Hwaseong-si,
Gyeonggi-do, Korea
Tel: +82-31-356-7333 Fax: +82-31-356-7303

Date of issue : October 28, 2019

Authorized Signature:

방송통신기자재등의 적합등록 필증

Registration of Broadcasting and Communication Equipments

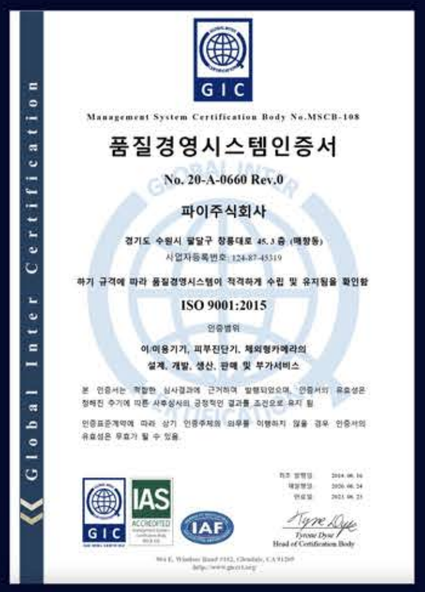
상호 또는 성명 Trade Name or Registrant	파이 주식회사
기자재명칭(제품명칭) Equipment' Name	Facial Analysis System
기본모델명 Basic Model Number	Focuskin
파생모델명 Sister Model Number	Foom
등록번호 Registration No.	R-R-pie-FOCUSKIN
제조자(제조国)국가 Manufacturer(Country of Origin)	파이 주식회사 / 한국
등록연월일 Date of Registration	2019-10-29
기타 Others	

위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.
It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2019년(Year) 10월(Month) 29일(Day)

국립전파연구원장

Director General of National Radio Research Agency



Global Inter Certification

GIC

Management System Certification Body No.MSCB-108

품질경영시스템인증서

No. 20-A-0660 Rev.0

파이주식회사

경기도 수원시 팔달구 창룡대로 45, 3 층 (매향동)
사업자등록번호: 124-87-45319

하기 규격에 따라 품질경영시스템이 적격하게 수립 및 유지됨을 확인함

ISO 9001:2015

인증범위

이.이용기기, 피부진단기, 체외형카메라의
설계, 개발, 생산, 판매 및 부가서비스

본 인증서는 적합한 심사결과에 근거하여 발행되었으며, 인증서의 유효성은 정해진 주기에 따른 사후심사의 긍정적인 결과를 조건으로 유지 됨.

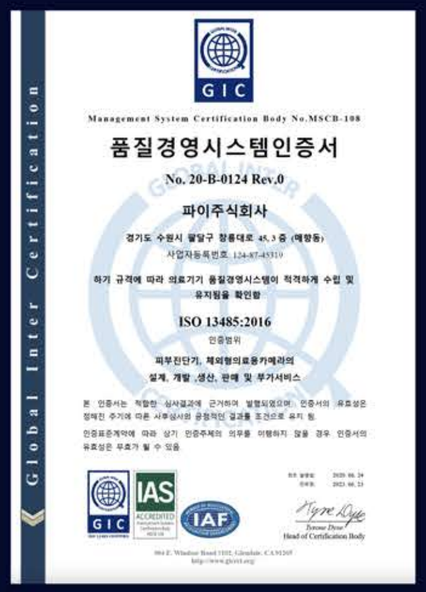
인증표준계약에 따라 상기 인증주체의 의무를 이행하지 않을 경우 인증서의 유효성은 무효가 될 수 있음.

최초 발행일	2014. 06. 16
재발행일	2020. 06. 24
만료일	2021. 06. 23

GIC IAS ACCREDITED IAF

Tyrone Dyer
Head of Certification Body

984 E. Windsor Road #102, Glendale, CA 91205
http://www.gicert.org/



Global Inter Certification

GIC

Management System Certification Body No.MSCB-108

품질경영시스템인증서

No. 20-B-0124 Rev.0

파이주식회사

경기도 수원시 팔달구 창룡대로 45, 3 층 (매향동)
사업자등록번호: 124-87-45319

하기 규격에 따라 의료기기 품질경영시스템이 적격하게 수립 및 유지됨을 확인함

ISO 13485:2016

인증범위

피부진단기, 체외형의료용카메라의
설계, 개발 ,생산, 판매 및 부가서비스

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최초 발행일	2020. 06. 24
만료일	2023. 06. 23

GIC IAS ACCREDITED IAF

Tyrone Dyer
Head of Certification Body

984 E. Windsor Road #102, Glendale, CA 91205
http://www.gicert.org/

특허증
CERTIFICATE OF PATENT

특허 Patent Number	**제 10-2091388 호**
출원번호 Application Number	제 10-2019-0123945 호
출원일 Filing Date	2019년 10월 07일
등록일 Registration Date	2020년 03월 16일

발명의 명칭 Title of the Invention
민감 정보에 대한 보안 유지 방법 및 이러한 방법을 사용하는 장치

특허권자 Patentee
파이 주식회사(135811-*****)**
경기도 수원시 팔달구 창룡대로 45 (매향동,3층)

발명자 Inventor
안재석(710813-*****)**

위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다.
This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.

2020년 03월 16일

QR코드로 전자기관 등록사항을 확인하세요

특허청
Korean Intellectual Property Office

특허청장
COMMISSIONER,
KOREAN INTELLECTUAL PROPERTY OFFICE
박 원주

특허증
CERTIFICATE OF PATENT

특허 Patent Number	**제 10-2462061 호**
출원번호 Application Number	제 10-2021-0045175 호
출원일 Filing Date	2021년 04월 07일
등록일 Registration Date	2022년 10월 28일

발명의 명칭 Title of the Invention
피부 레퍼런스 매널을 이용한 장치간 영상 편차 보정방법 및, 이러한 기능을 갖는 안면 피부 진단장치

특허권자 Patentee
파이 주식회사(135811-*****)**
경기도 수원시 팔달구 창룡대로 45 (매향동,3층)

발명자 Inventor
안재석(710813-*****)**

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2022년 10월 28일

QR코드로 전자기관 등록사항을 확인하세요

특허청
Korean Intellectual Property Office

특허청장
COMMISSIONER,
KOREAN INTELLECTUAL PROPERTY OFFICE
이 인실

5

Product Specification

5 Product Specification

PIE

Focuskin

Camera	Compact camera
Resolution	20 million pixels
Light source	SunLike LED
Dimension	36(W) x 51(H) x 29(D) cm, 7.2 kg
Analysis items	15 items (Total Result, Skin Type, Pore, Wrinkle, Elasticity, Spot, U.V Spot, Skin tone, Redness, Glossy, Sebum, Moisture, Personal color, Detailed View)
Languages	Korean, English, Japanese, Chinese (Simplified/Traditional), Russian, Vietnamese, German, French, Portuguese, Italian, Hungarian, Thai, Indonesian, Spanish, Serbian, Polish, Turkish, Mongolian, Ukrainian, Hindi, Marathi, Danish (Total of 23)
OS / Resolution	Windows® 7/8/10/11, Not supported on ARM-based processors

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www.pie.co.kr

sales@pie.co.kr

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+82-10-8571-9133

Focuskin